CFD-F10/F10L

SERVICE MANUAL

Ver. 1.4 2005.09

US Model
Canadian Model
E Model
Australian Model
CFD-F10
AEP Model
UK Model
CFD-F10L

Photo: CFD-F10

• Abbreviation
AR : Argentina model
CND : Canadian model
IT : Italian model
EE : East European model
KR : Korean model
SP : Singapore model
TW : Taiwan model
AUS : Australian model

CD Section	Model Name Using Similar Mechanism	CFD-S250/S250L
	CD Mechanism Type	KSM-213RDP or KSM-213CDP
	Optical Pick-up Name	KSS-213R or KSS-213C
TC Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-F10

SPECIFICATIONS

CD player section

System
Compact disc digital audio system
Laser diode properties
Material: GaAlAs
Wave length: 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 µW
(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Spindle speed
200 r/min (rpm) to 500 r/min (rpm) (CLV)
Number of channels
2
Frequency response
20 - 20 000 Hz +1/–2 dB
Wow and flutter
Below measurable limit

Radio section

Frequency range

CFD-F10	
FM	87.5 - 108 MHz
AM	531 - 1 611 kHz (9 kHz step) 530 - 1 710 kHz (10 kHz step)
CFD-F10L	
FM	87.5 - 108 MHz
MW	531 - 1 611 kHz (9 kHz step) 530 - 1 610 kHz (10 kHz step)
LW	153 - 279 kHz (3 kHz step)

IF
FM: 10.7 MHz
AM/MW/LW: 450 kHz
Aerials
FM: Telescopic aerials
AM/MW/LW: Built-in ferrite bar aerials

Cassette-corder section

Recording system
4-track 2 channel stereo
Fast winding time
Approx. 110 s (sec.) with Sony cassette C-60
Frequency response
TYPE I (normal): 80 - 13 000 Hz

General

Speaker
Full range: 10 cm dia., 6 Ω, cone type (2)
Tweeter: 2 cm dia. (2)
Passive Radiator: 10 cm dia. (1)
Input
LINE IN jack (stereo minijack) (CFD-F10L only):
Minimum input level 330 mV
Outputs
Headphones jack (stereo minijack):
For 16 - 68 Ω impedance headphones
OPTICAL DIGITAL OUT (CD) (Optical output connector) (CFD-F10L only):
Wavelength: 630 - 690 nm
Maximum Power output
8 W

Power requirements
For CD radio cassette-corder: 120V AC, 60 Hz (US, CND, E, TW)
230V AC, 50 Hz
(AEP, UK, IT, EE, KR, SP, AR, AUS)
9 V DC, 6 R20 (size D) batteries
For remote control:
3 V DC, 2 R03 (size AAA) batteries
Power consumption
AC 25 W
Battery life
For CD radio cassette-corder:

FM recording	
Sony R20P: approx. 3.5 h	
Sony alkaline LR20: approx. 10 h	
Tape playback	
Sony R20P: approx. 1.5 h	
Sony alkaline LR20: approx. 5 h	
CD playback	
Sony R20P: approx. 1 h	
Sony alkaline LR20: approx. 4 h	

Dimensions
Approx. 515 × 201 × 287 mm (w/h/d)
(20 3/8 × 8 × 11 3/8 inches) (incl. projecting parts)
Mass
Approx. 5.1 kg (11 lb. 4 oz) (incl. batteries)
Supplied accessory
Mains lead (1)
Remote control (1)

Design and specifications are subject to change without notice.

CD RADIO CASSETTE-CORDER

9-877-645-05
2005I16-1
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Sony Corporation
Personal Audio Group
Published by Sony Engineering Corporation

SONY®

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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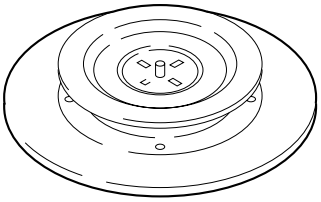
SECTION 1
SERVICING NOTES

CHUCK PLATE JIG ON REPAIRING

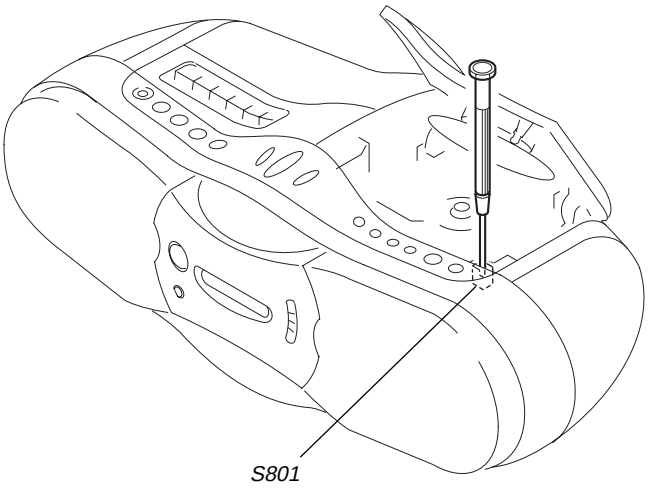
On repairing CD section, playing a disc without the lid (CD), use Chuck Plate Jig.

• Code number of Chuck Plate Jig: X-4918-255-1



LASER DIODE AND FOCUS SEARCH OPERATION CHECK

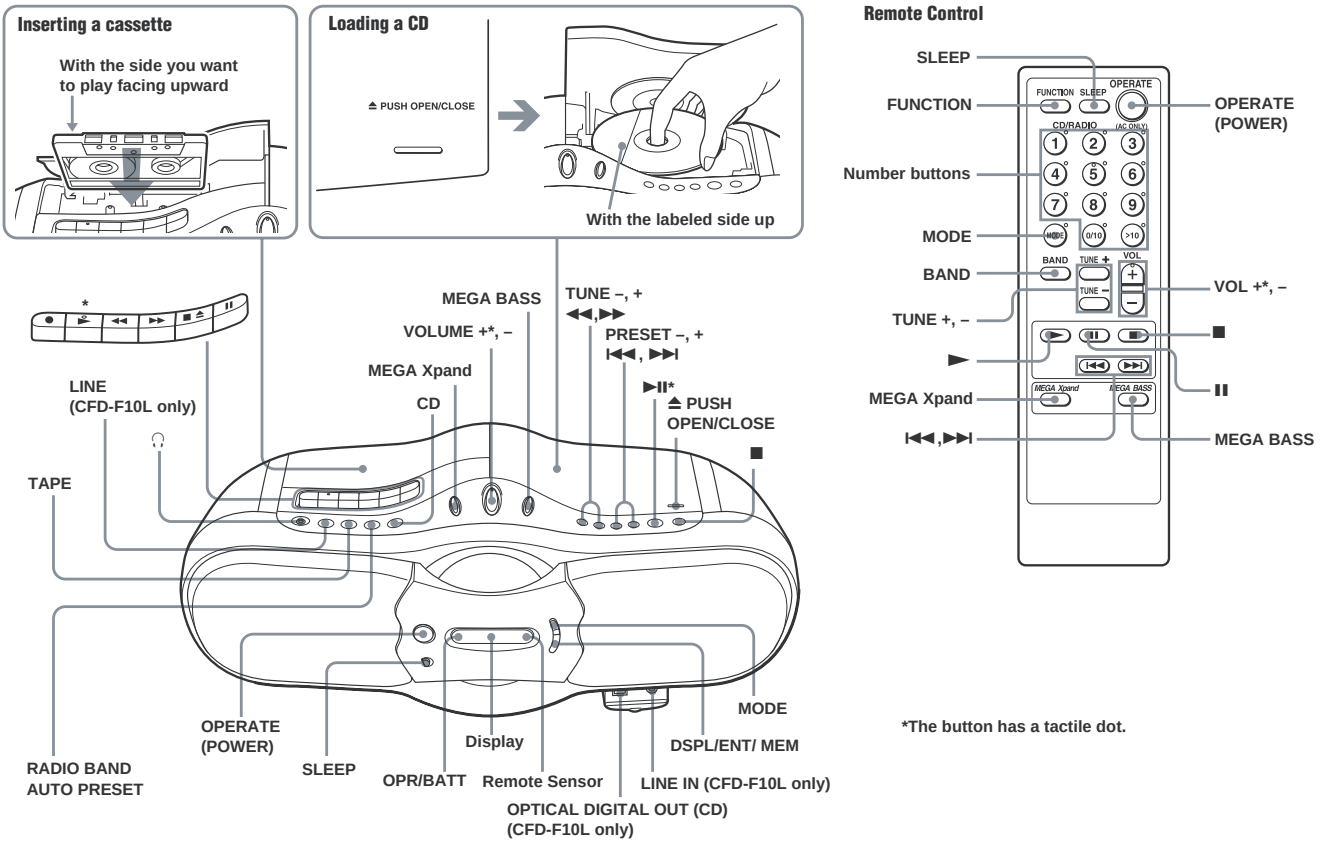
1. Turn ON the POWER button and press CD button to CD position.
2. Open the CD lid.
3. Turn on S801 with screwdriver, etc. as following figure.
4. Press the ►II (CD) button.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down three times for focus search.



SECTION 2
GENERAL

This section is extracted from instruction manual.

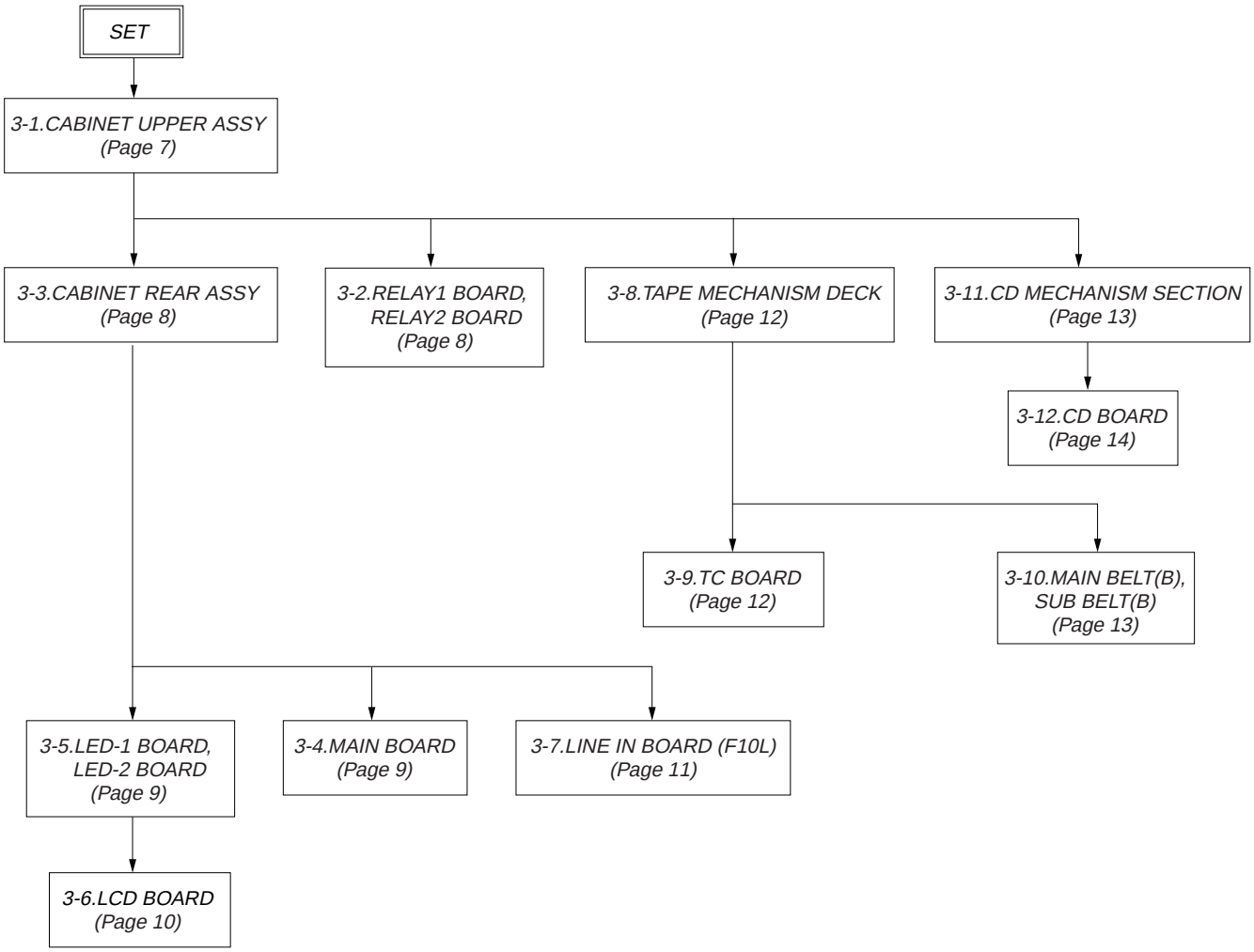
Location of controls



Display

SECTION 3
DISASSEMBLY

• The equipment can be removed using the following procedure.


SET
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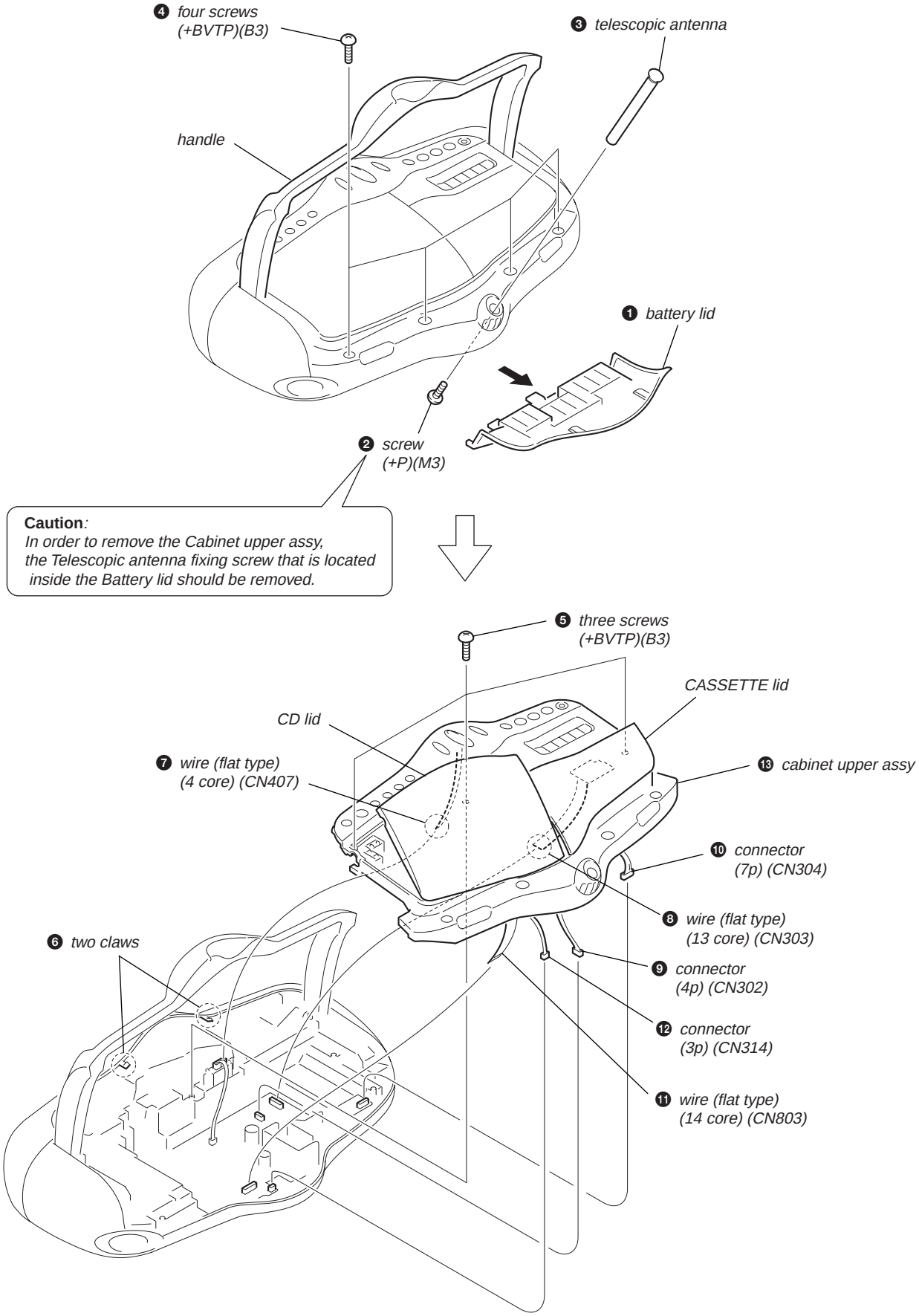
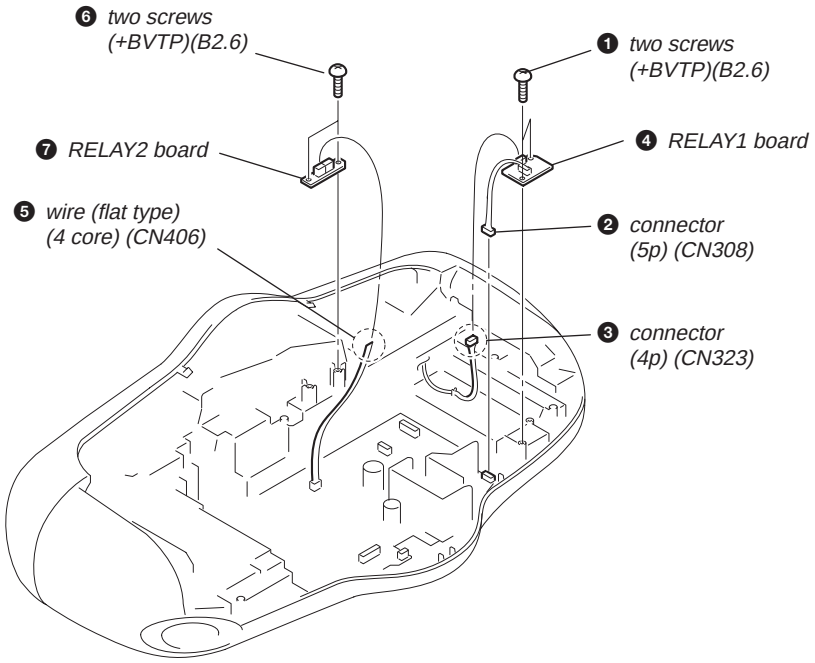
3-6.LCD BOARD (Page 10)

Note : Follow the disassembly procedure in the numerical order given.

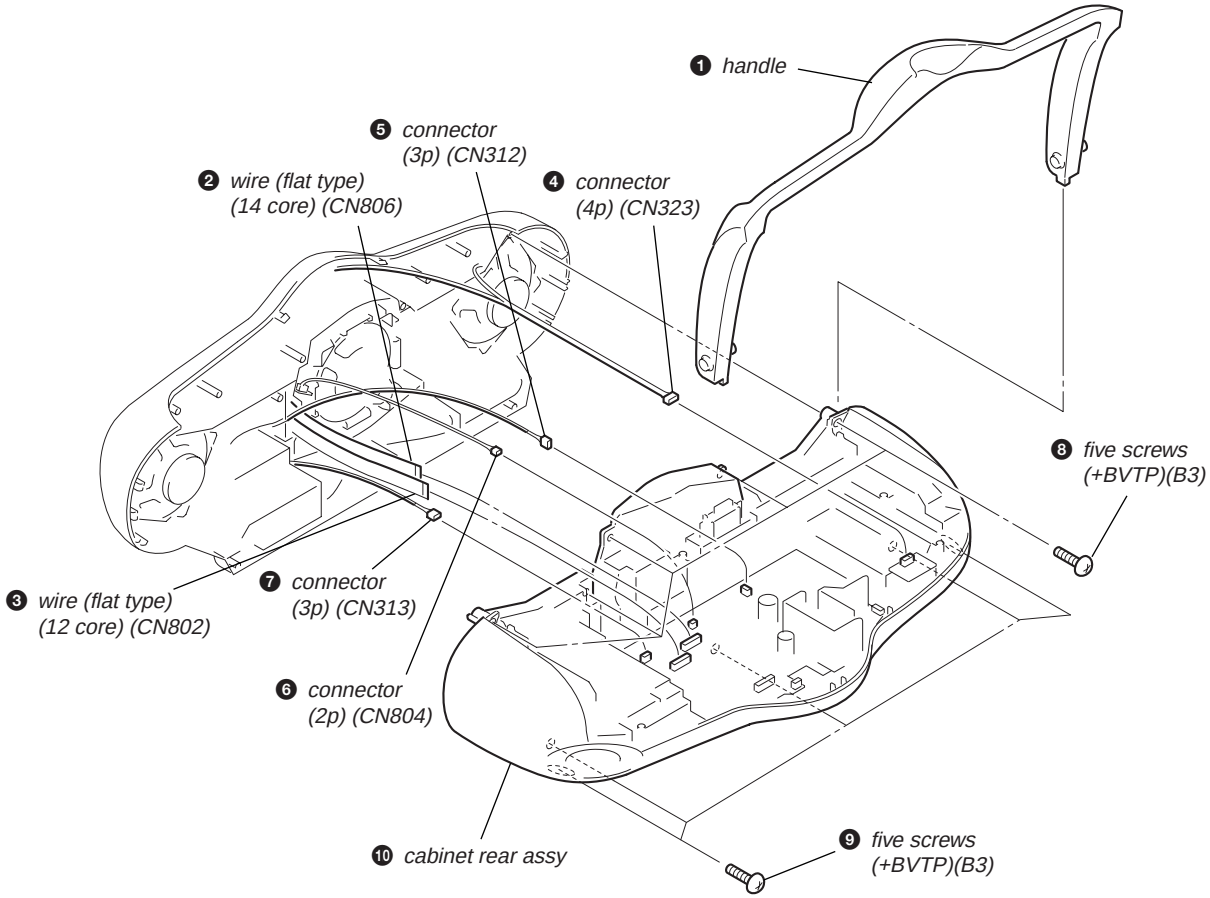
3-1. CABINET UPPER ASSY


❹ four screws (+BVTP)(B3)
❸ telescopic antenna
handle
❶ battery lid
❷ screw (+P)(M3)
Caution:
In order to remove the Cabinet upper assy, the Telescopic antenna fixing screw that is located inside the Battery lid should be removed.
❺ three screws (+BVTP)(B3)
CASSETTE lid
CD lid
❼ wire (flat type) (4 core) (CN407)
⓭ cabinet upper assy
❿ connector (7p) (CN304)
❽ wire (flat type) (13 core) (CN303)
❻ two claws
❾ connector (4p) (CN302)
⓬ connector (3p) (CN314)
⓫ wire (flat type) (14 core) (CN803)

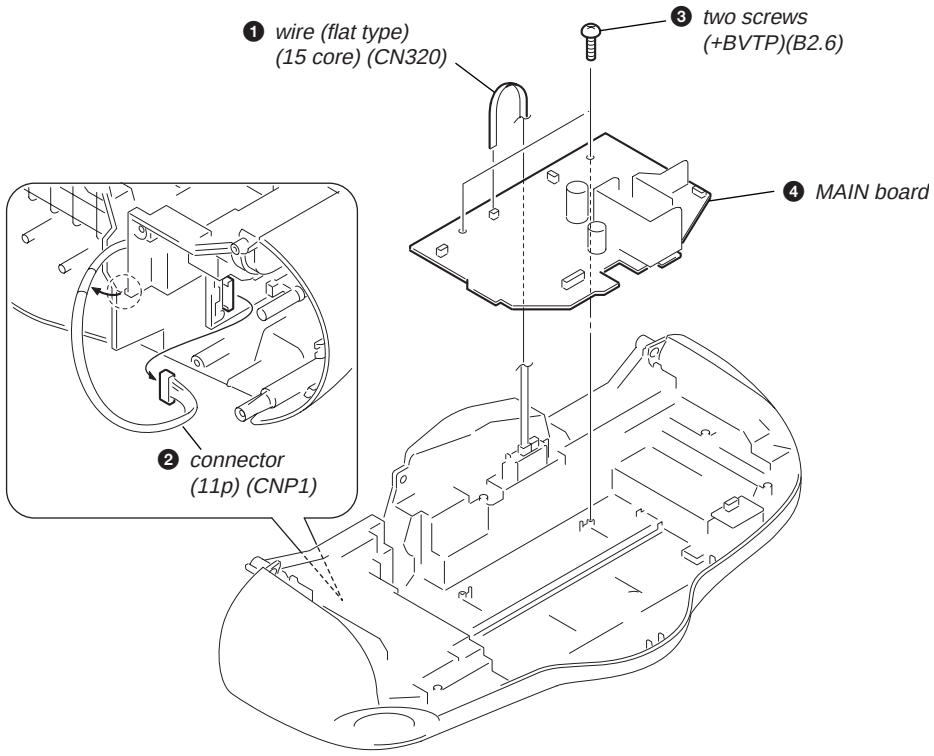
3-2. RELAY1 BOARD, RELAY2 BOARD



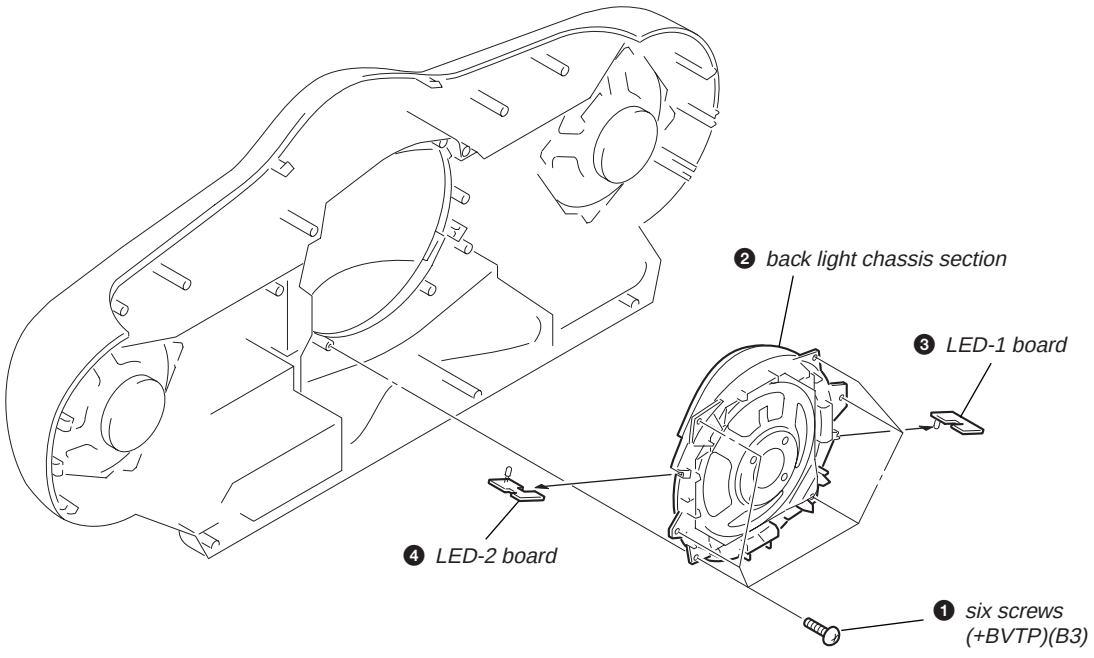
3-3. CABINET REAR ASSY



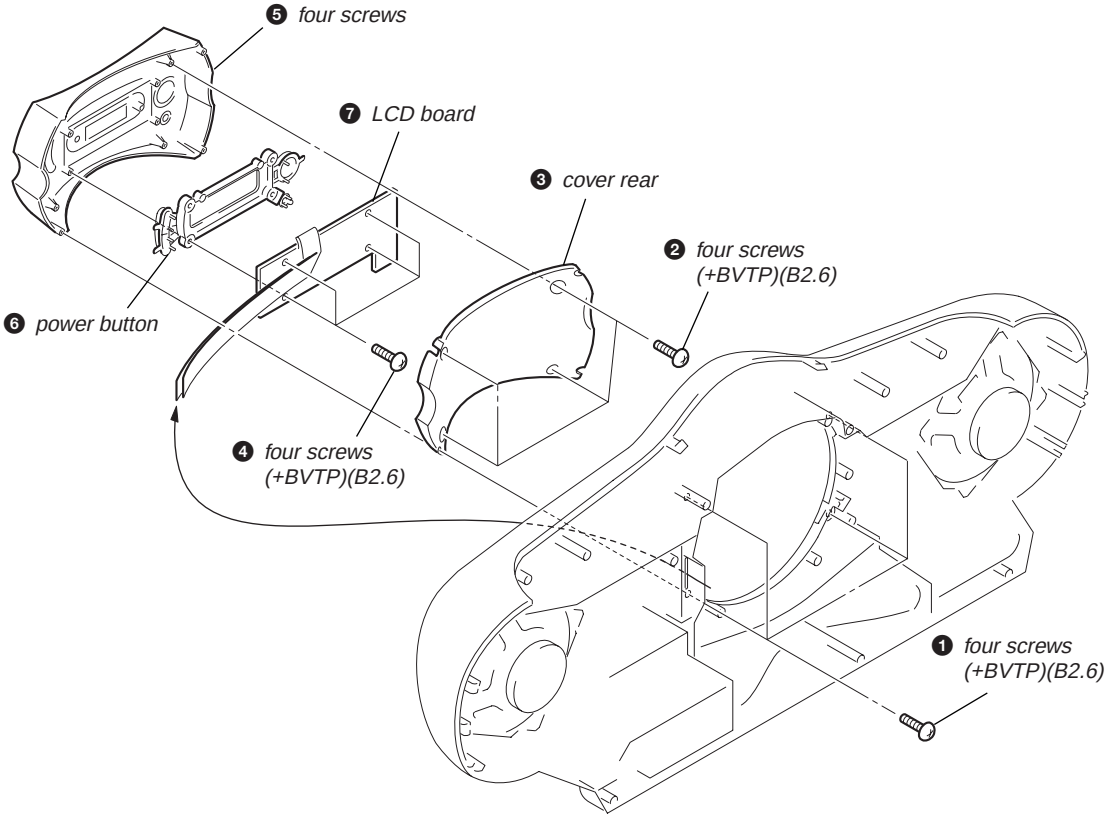
3-4. MAIN BOARD



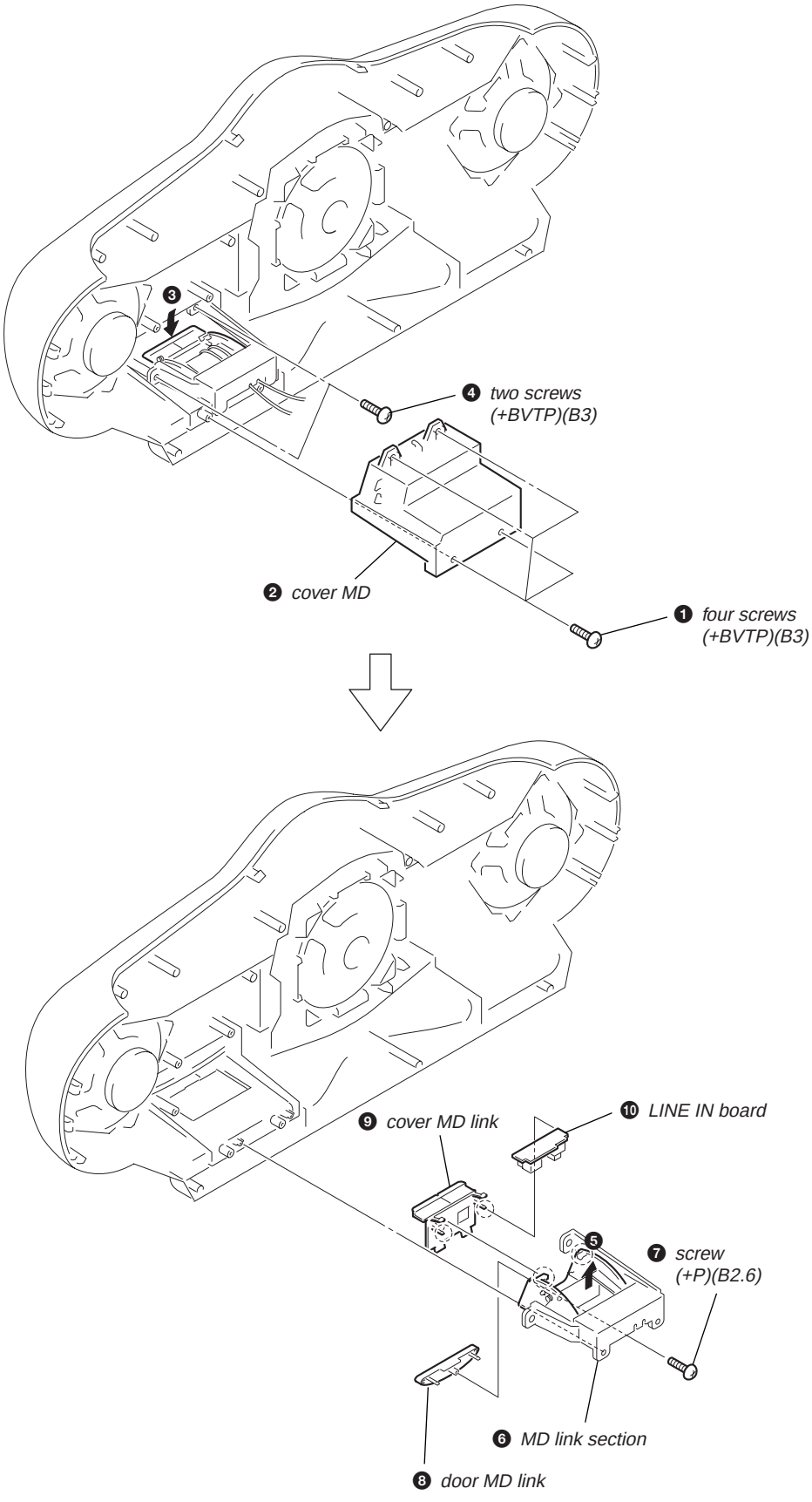
3-5. LED-1 BOARD, LED-2 BOARD



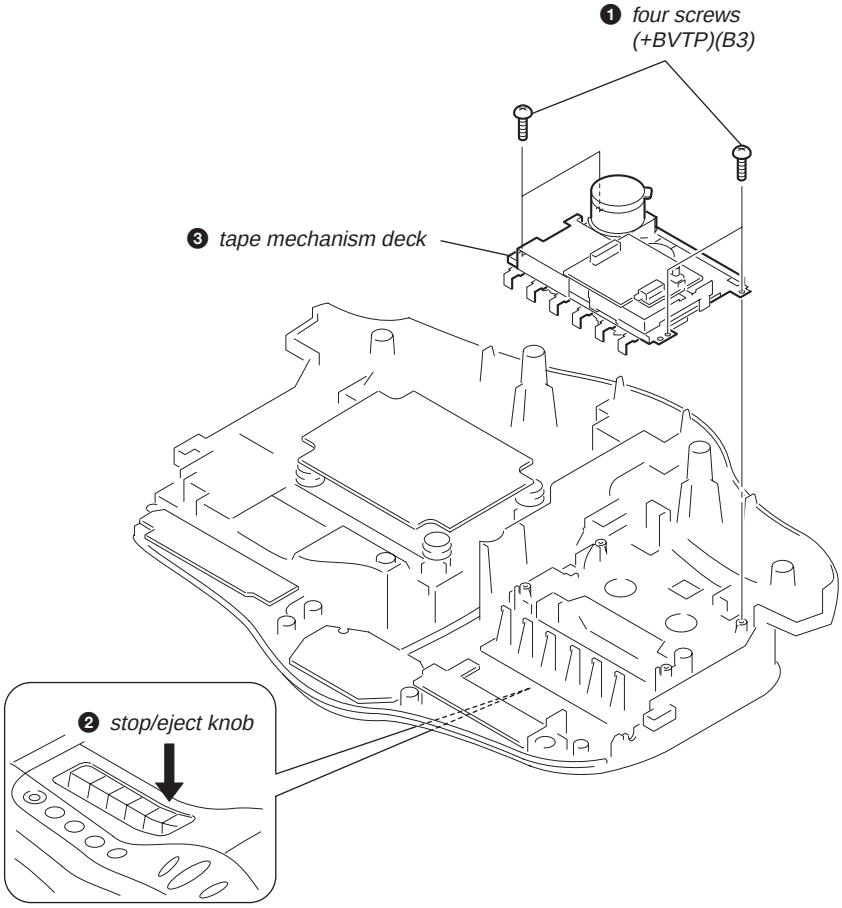
3-6. LCD BOARD


❺ four screws
❼ LCD board
❸ cover rear
❷ four screws
(+BVTP)(B2.6)
❻ power button
❹ four screws
(+BVTP)(B2.6)
❶ four screws
(+BVTP)(B2.6)

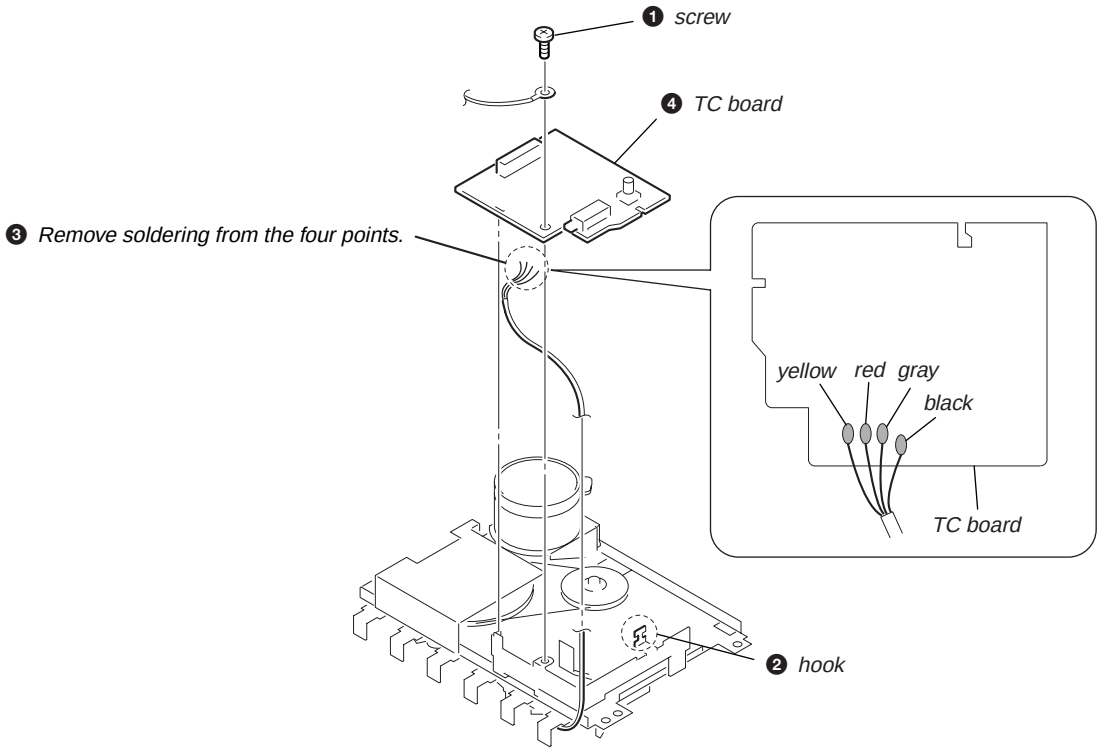
3-7. LINE IN BOARD (F10L)



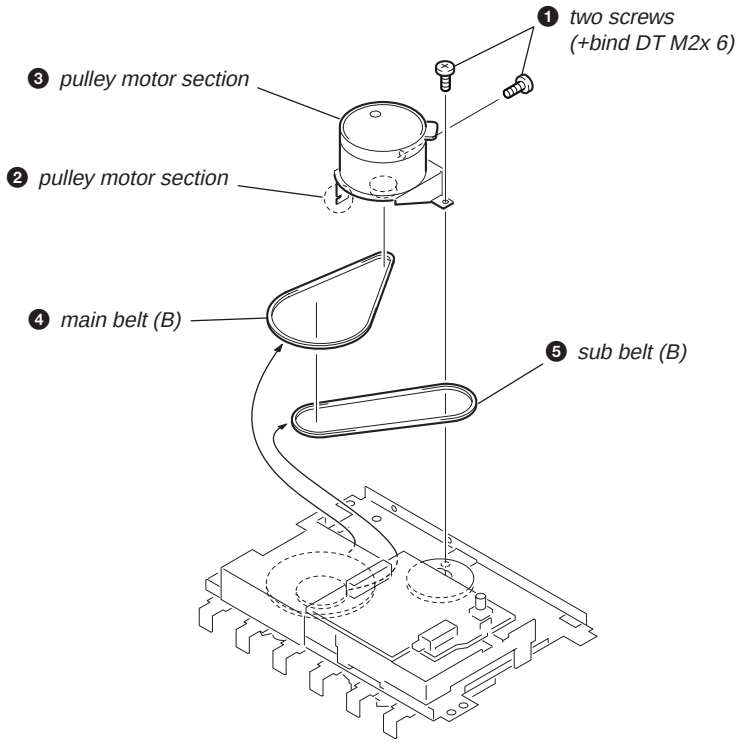
3-8. TAPE MECHANISM DECK



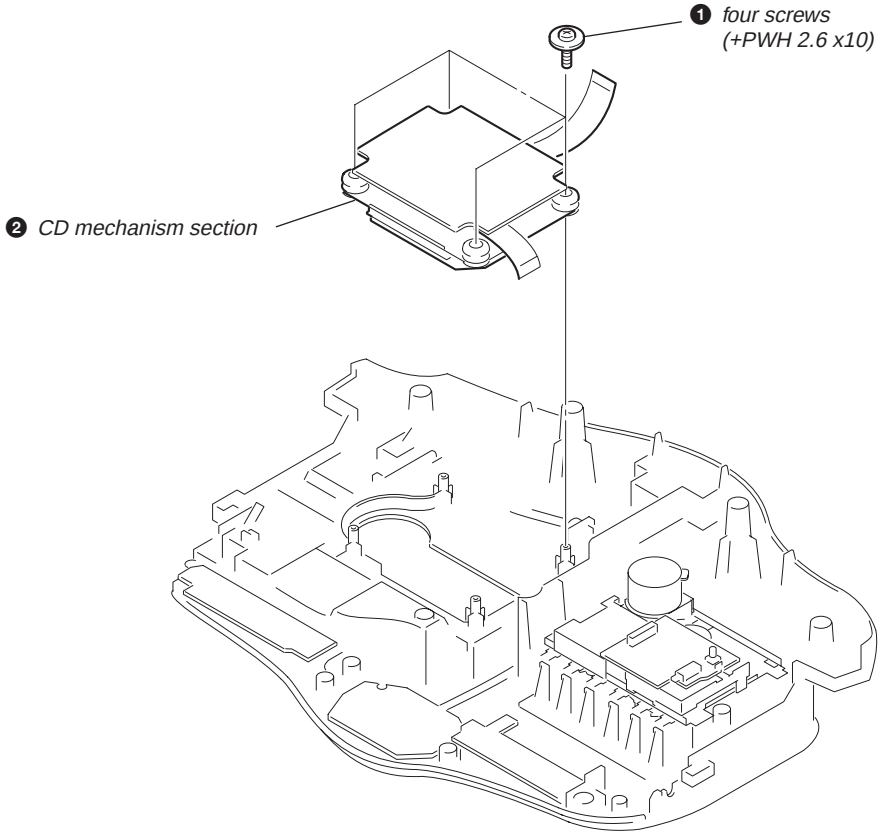
3-9. TC BOARD



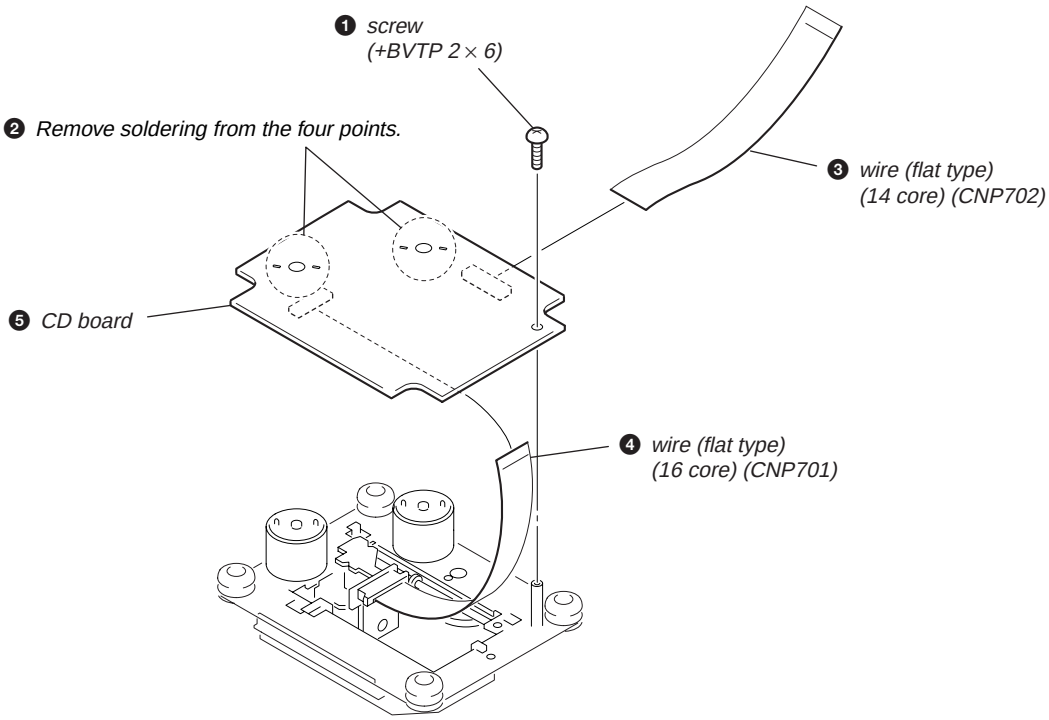
3-10. MAIN BELT (B), SUB BELT (B)



3-11. CD MECHANISM SECTION



3-12. CD BOARD


❶ screw
(+BVTP 2 × 6)
❷ Remove soldering from the four points.
❸ wire (flat type)
(14 core) (CNP702)
❺ CD board
❹ wire (flat type)
(16 core) (CNP701)

SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head, erase head, capstan, pinch roller, rubber belts, idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. The adjustments should be performed with the rated power supply voltage (9V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.95 – 6.86 mN • m (30 – 70 g • cm) (0.42 – 0.97 oz • inch)
FWD Back Tension	CQ-102C	0.15 – 0.53 mN • m (1.5 – 5.5 g • cm) (0.021 – 0.076 oz • inch)
FF	CQ-201B	more than 5.88 mN • m (more than 60 g • cm) (more than 0.83 oz • inch)
REW	CQ-201B	more than 5.88 mN • m (more than 60 g • cm) (more than 0.83 oz • inch)

Tape Tension Measurement

Mode	Tension meter	Meter Reading
FWD	CQ-403A	more than 100 g (more than 3.53 oz)

SECTION 5
ELECTRICAL ADJUSTMENTS

TAPE SECTION **0 dB = 0.775 V**

• Standard Output Level

Output terminal	HP OUT
load impedance	32 Ω
output signal level	0.25 V (–10 dB)

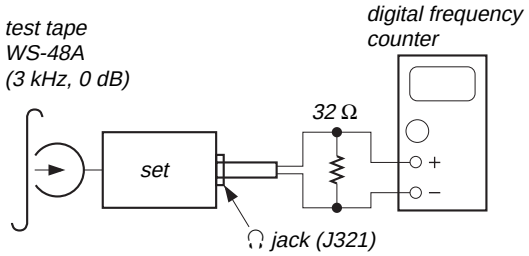
• Test Tape

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	tape speed adjustment

Tape Speed Adjustment

Procedure:

Mode: playback



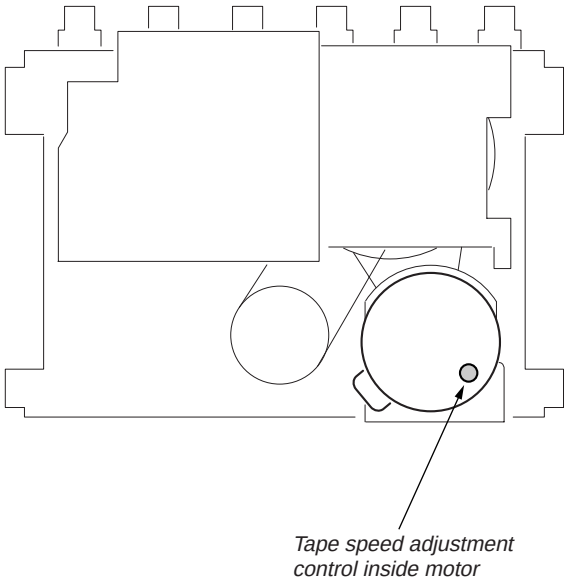
Adjust so that the value on the digital frequency counter is 3,000 Hz.

Specification Value:

Digital frequency counter
2,940 to 3,060 Hz

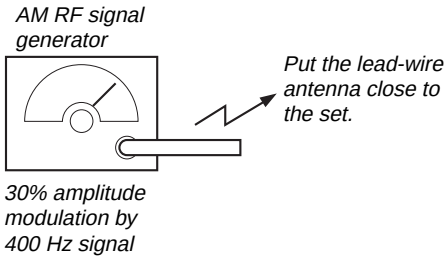
Adjust so that the frequency at the beginning and that at the end of tape winding are between 2,970 to 3,030 Hz.

Adjustment Location:

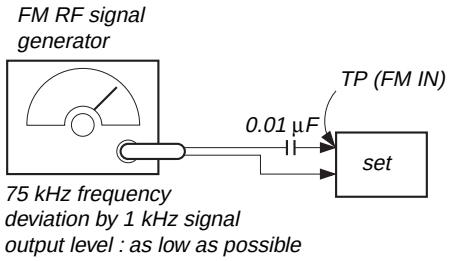


TUNER SECTION | 0 dB = 1 µV

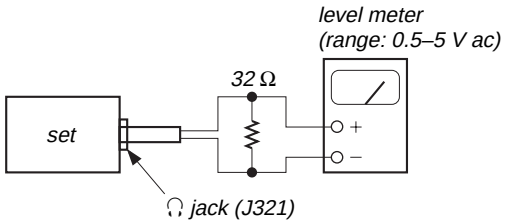
- **AM Section**
  Setting:
  RADIO BAND•AUTO PRESET button: MW or LW



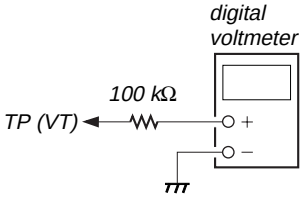
- **FM Section**
  Setting:
  RADIO BAND•AUTO PRESET button: FM



- **Connecting Level Meter (FM, MW and LW)**



- **Connecting Digital Voltmeter (FM, MW and LW)**



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

MW IF ADJUSTMENT
Adjust for a maximum reading on level meter.
T1
450 kHz

MW FREQUENCY COVERAGE CHECK		
Frequency Display	531 kHz	1,611 kHz
Reading on Digital voltmeter	1.0 ± 0.5 V	5.2 ± 0.6 V
Adjustment Part	<confirmation>	<confirmation>

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3-1	CT3
621 kHz	1,404 kHz

LW FREQUENCY COVERAGE ADJUSTMENT		
Frequency Display	153 kHz	279 kHz
Reading on Digital voltmeter	0.6 ± 0.3 V	5.0 ± 0.1 V
Adjustment Part	<confirmation>	L4

LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3-2	CT5
162 kHz	261 kHz

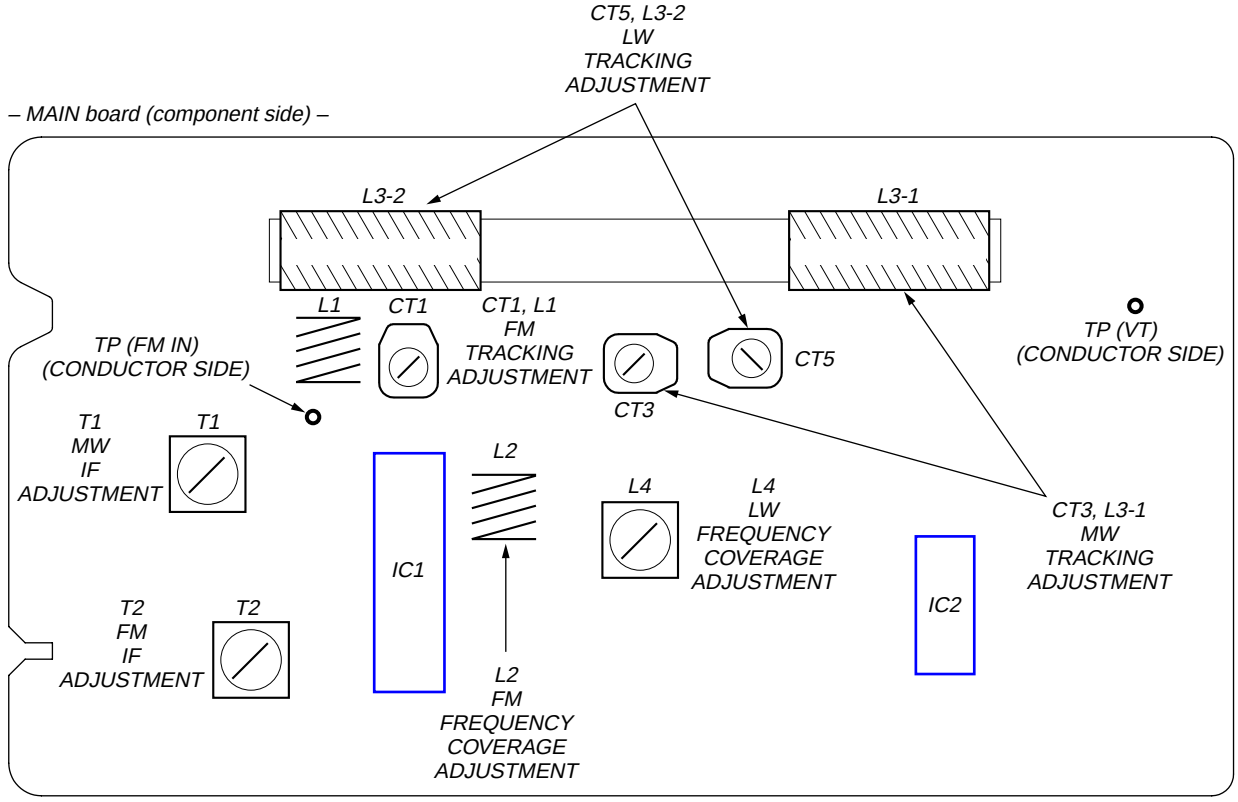
FM IF ADJUSTMENT
Adjust for a maximum reading on level meter.
T2
10.7 MHz

FM FREQUENCY COVERAGE ADJUSTMENT		
Frequency Display	87.5 MHz	108 MHz
Reading on Digital voltmeter	1.3 ± 0.3 V	3.0 ± 0.2 V
Adjustment Part	<confirmation>	L2

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L1	CT1
87.5 MHz	108 MHz

Adjustment Location: See page 17.

Adjustment Location:



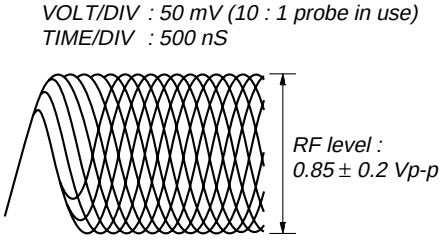
CD SECTION

CD section adjustments are done automatically in this set.
In case of operation check, confirm that focus bias.

FOCUS BIAS CHECK

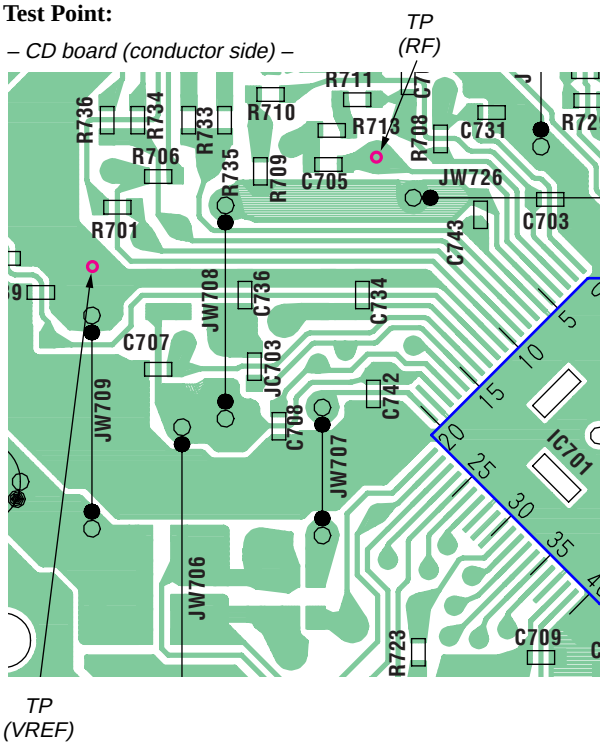
1. Connect the oscilloscope between IC701 pin ④ and pin ⑪ (or TP (RF) and TP (VREF)).
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the ►II (CD) button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

• RF signal reference waveform (eye pattern)



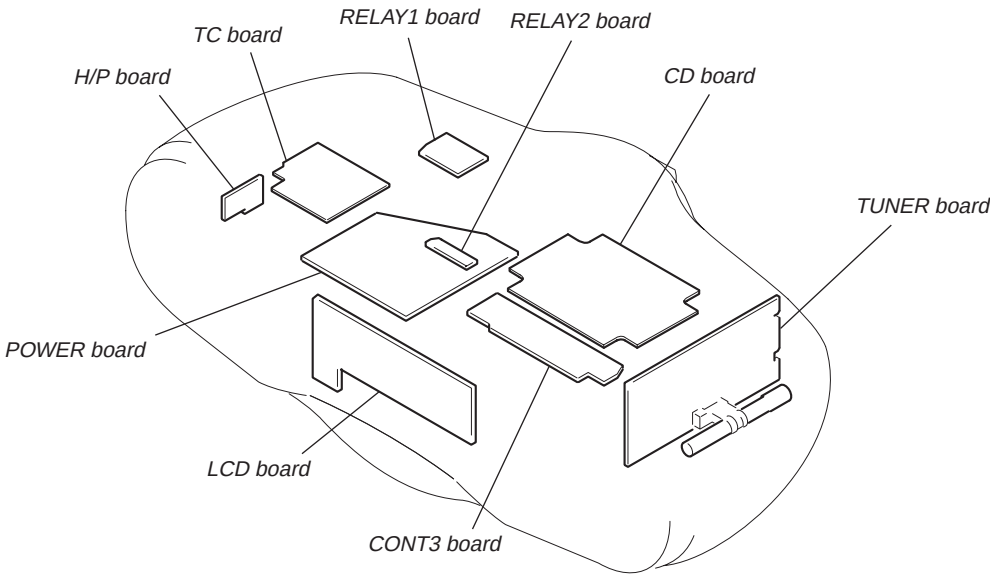
When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

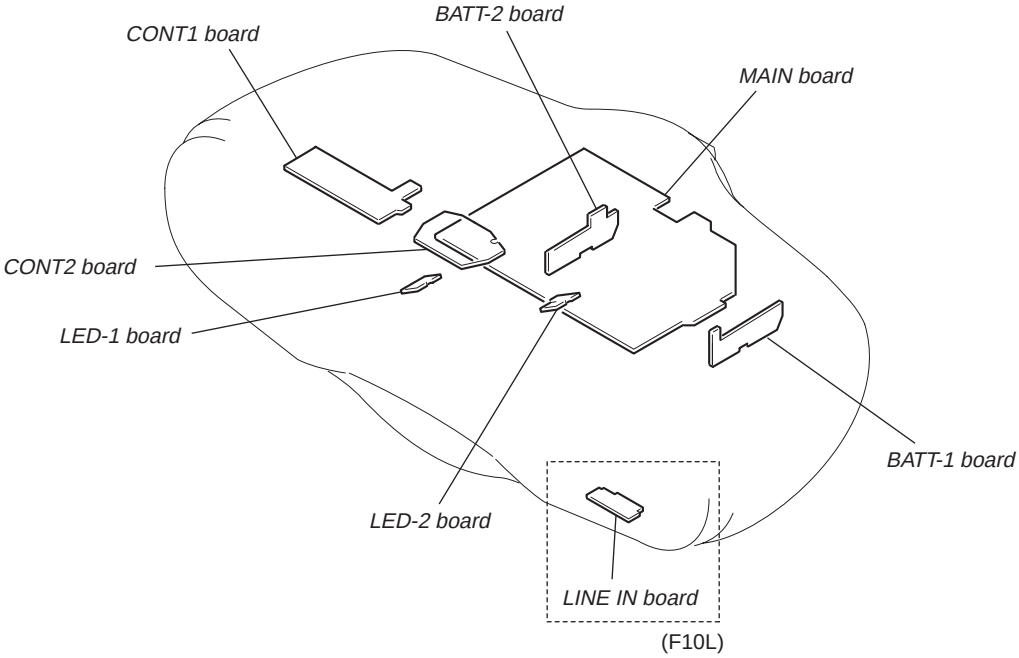
Test Point:



SECTION 6
DIAGRAMS

CIRCUIT BOARD LOCATION





(F10L)

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

Common Note on Schematic Diagrams:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- ▬ : B+ Line.
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 9V and fed with regulated dc power supply from battery terminal.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : MW
  - ⇨ : PB
  - ⇨ : REC
  - ⇨ : CD
  - ⇨ : CD (DIGITAL)

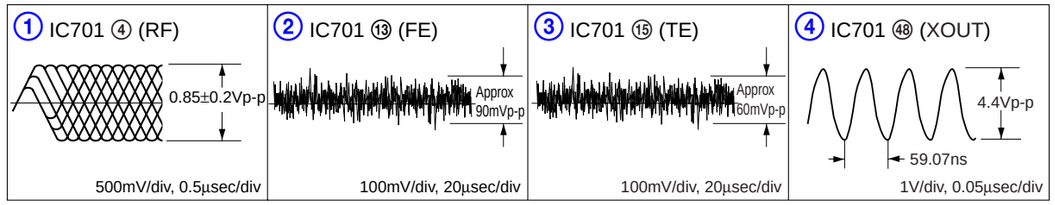
- Abbreviation
  - CND : Canadian model
  - IT : Italian model
  - EE : East European model
  - KR : Korean model
  - SP : Singapore model
  - TW : Taiwan model
  - AUS : Australian model

Common Note on Printed Wiring Boards:

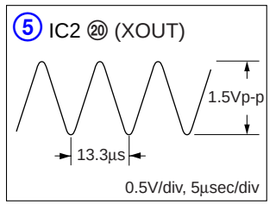
- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

• Waveforms

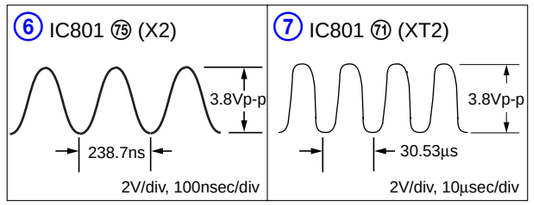
— CD BOARD — (Mode: PLAY)



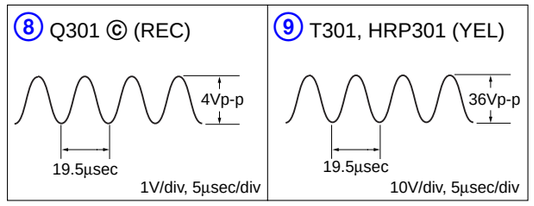
— TUNER BOARD —



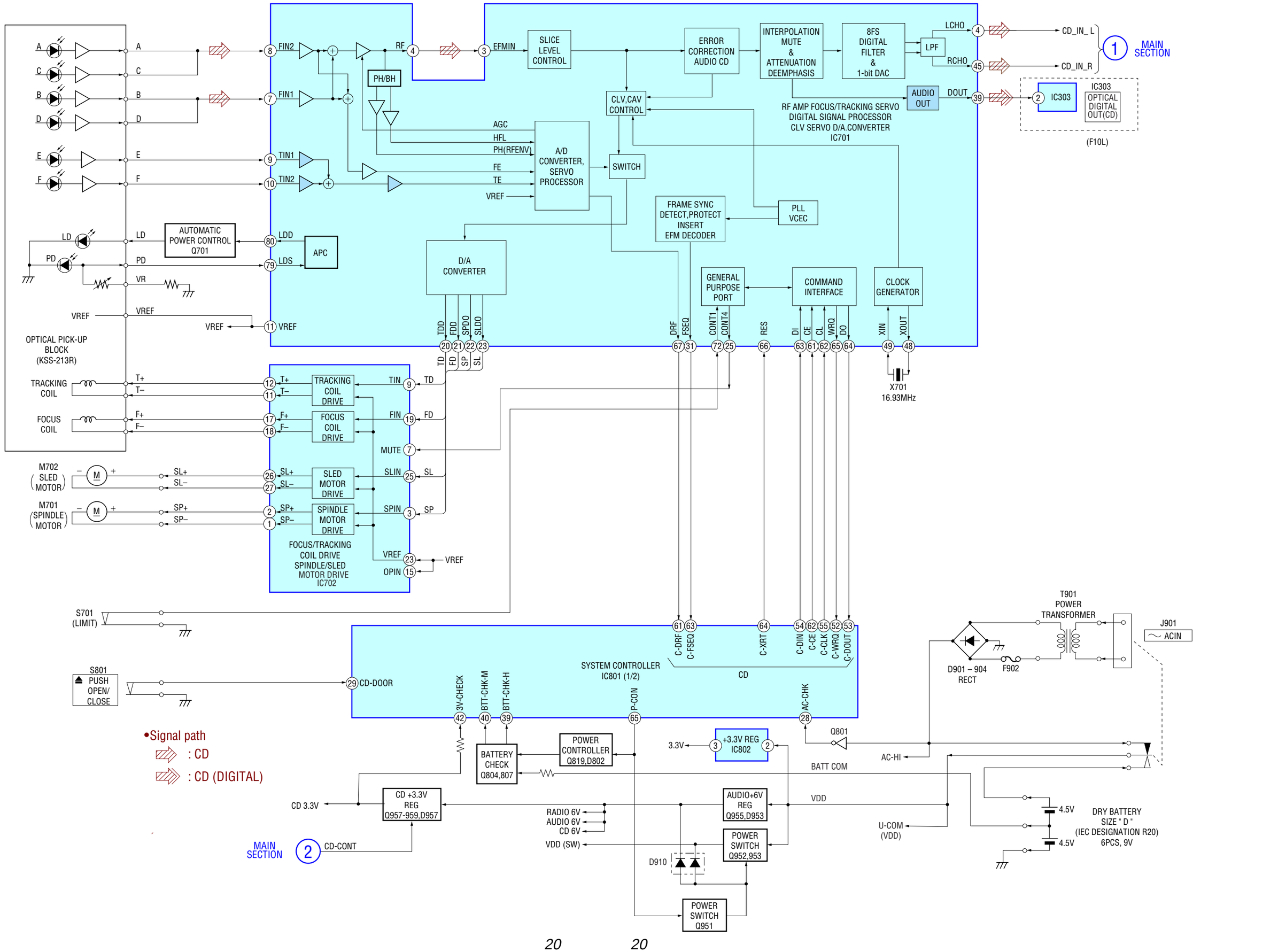
— MAIN BOARD —



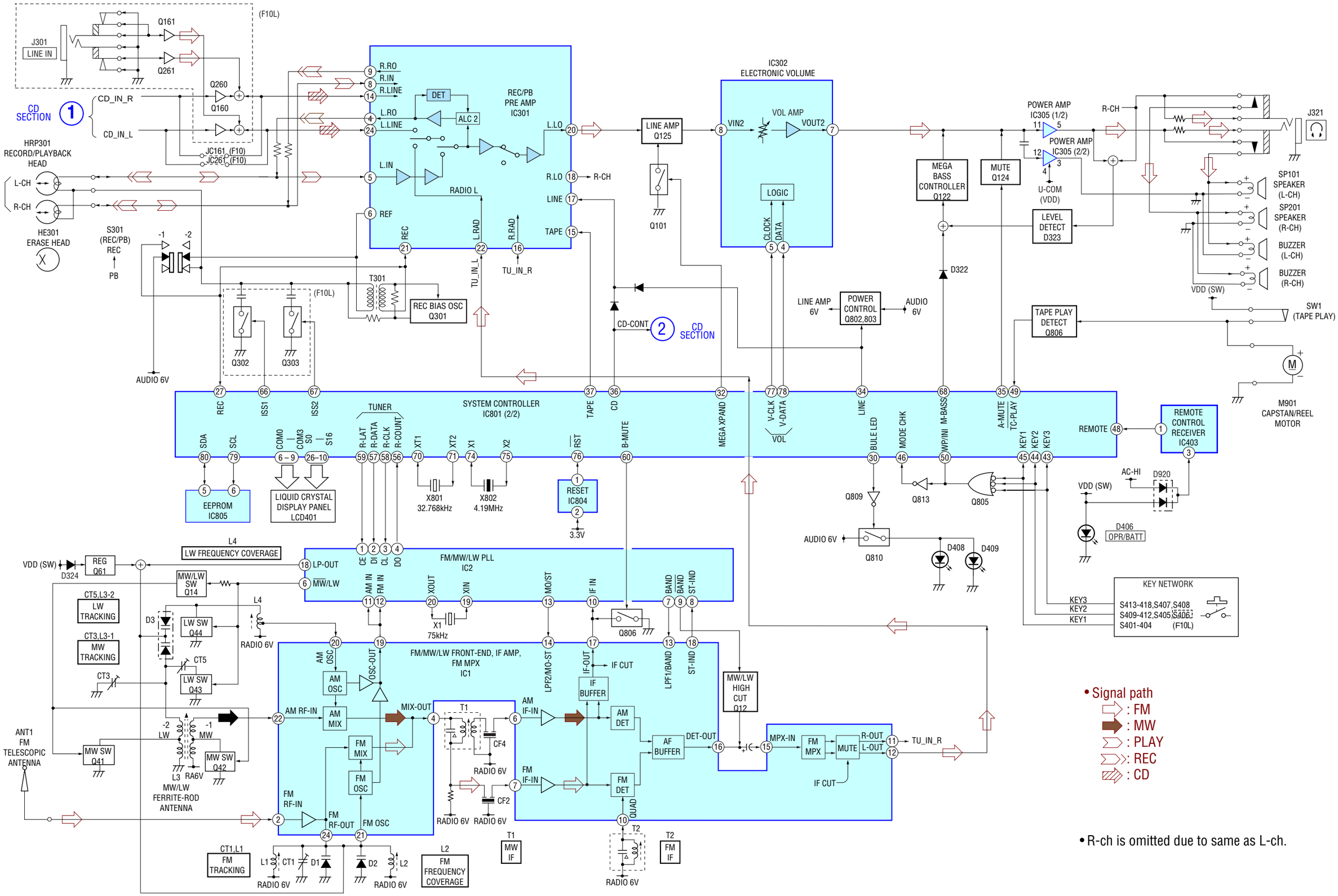
— TC BOARD —



6-1. BLOCK DIAGRAM – CD SECTION –



– MAIN SECTION –



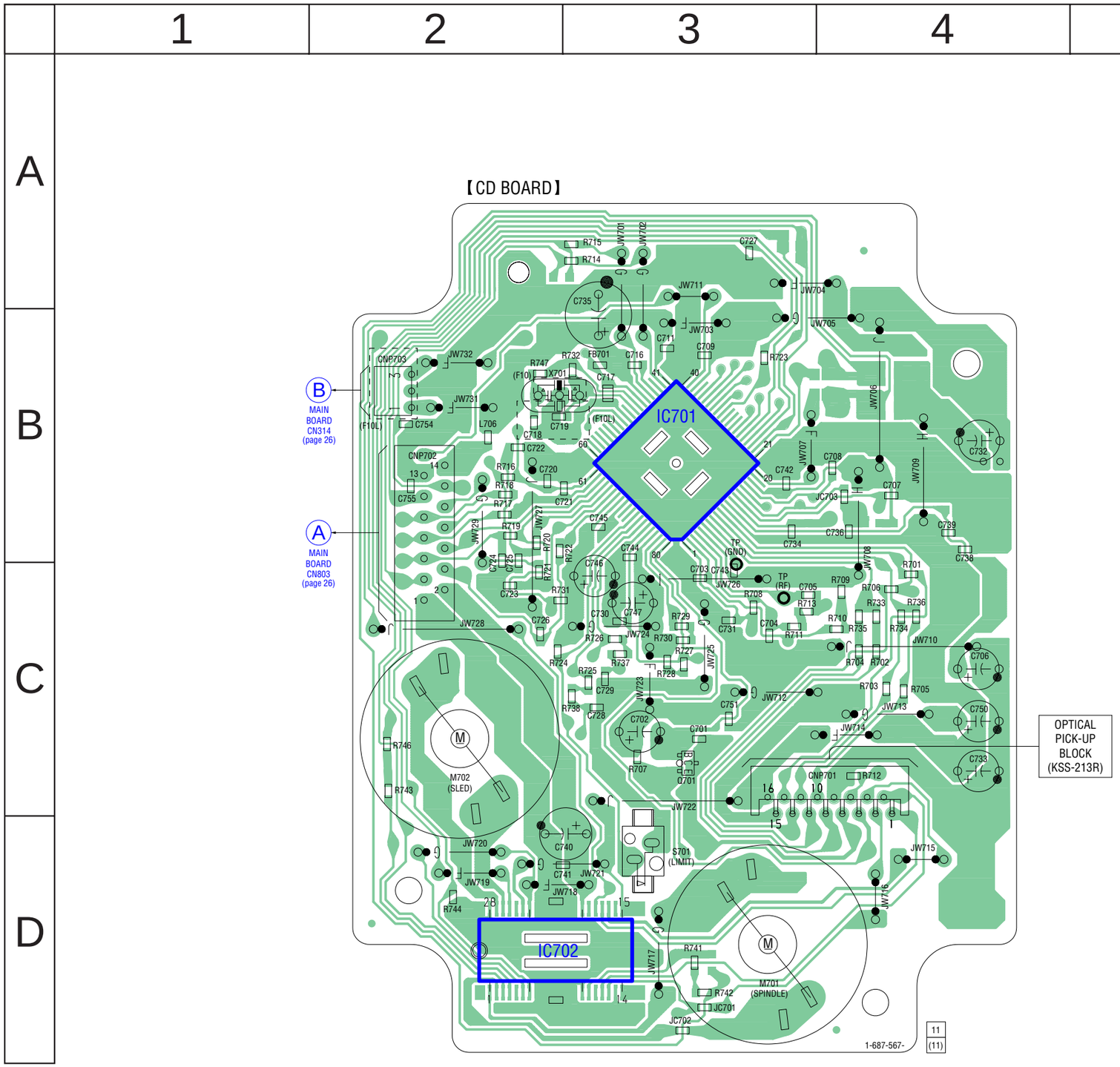
- Signal path
  - : FM
  - : MW
  - : PLAY
  - : REC
  - : CD

- R-ch is omitted due to same as L-ch.

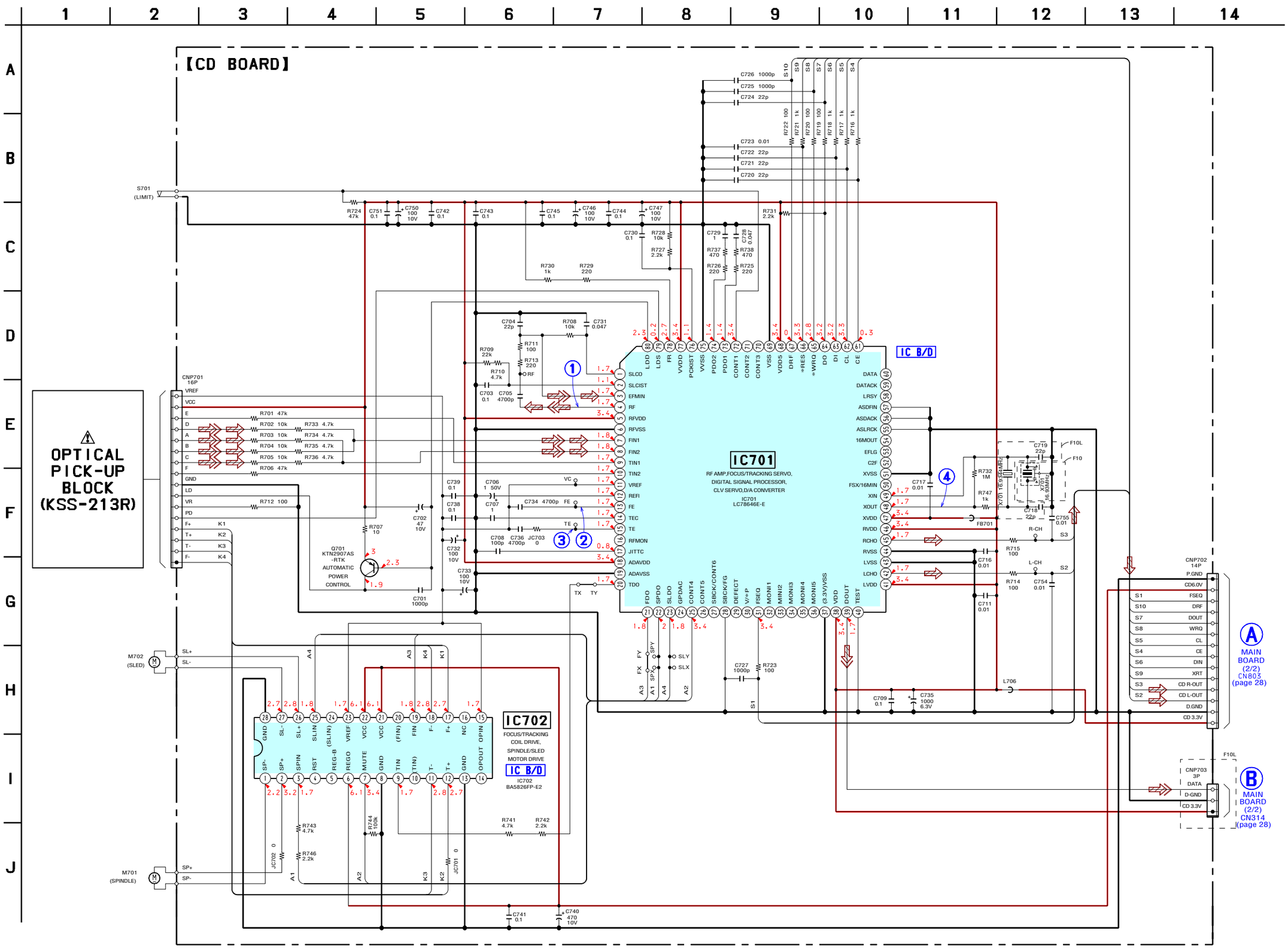
6-2. PRINTED WIRING BOARD – CD SECTION –

• Refer to page 18 for Circuit Boards Location.

【CD BOARD】

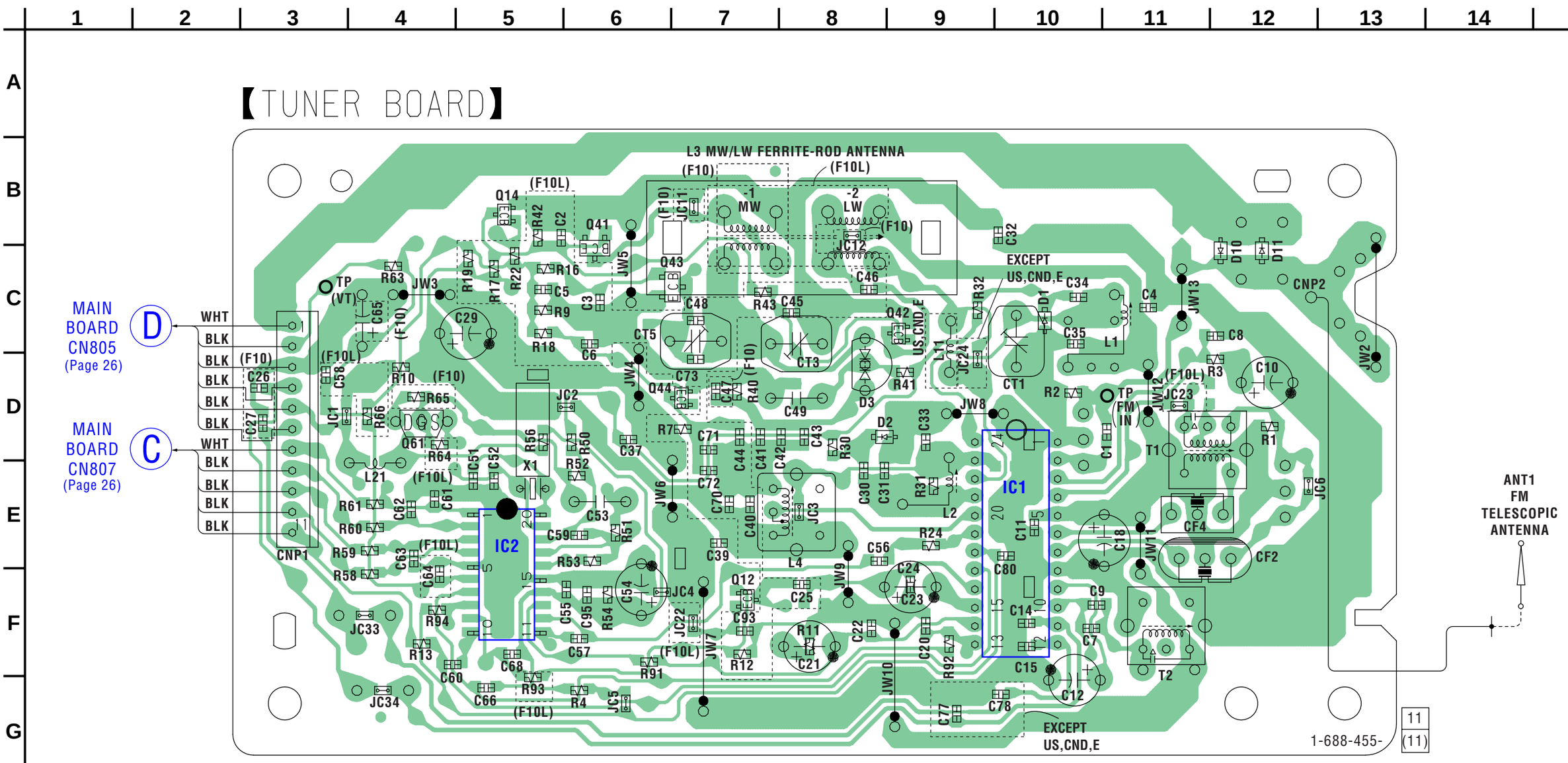


6-3. SCHEMATIC DIAGRAM – CD SECTION –



6-4. PRINTED WIRING BOARD – TUNER SECTION – • Refer to page 18 for Circuit Boards Location.

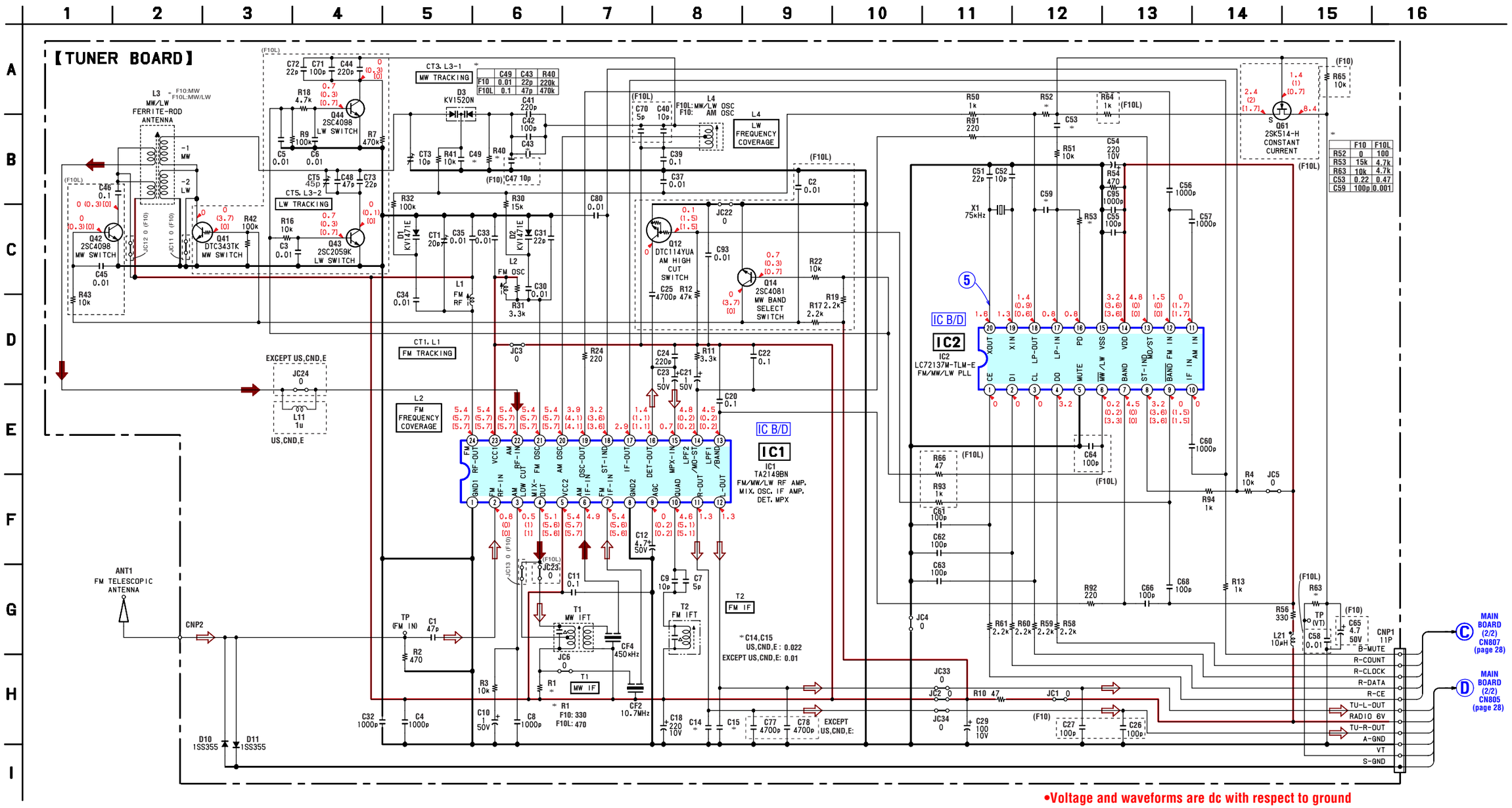
【TUNER BOARD】



• Semiconductor Location

Ref. No.	Location
D1	C-10
D2	D-8
D3	D-8
D10	B-12
D11	B-12
IC1	E-10
IC2	E-5
Q12	F-7
Q14	B-5
Q41	C-6
Q42	C-9
Q43	C-6
Q44	D-6
Q61	D-4

6-5. SCHEMATIC DIAGRAM – TUNER SECTION –



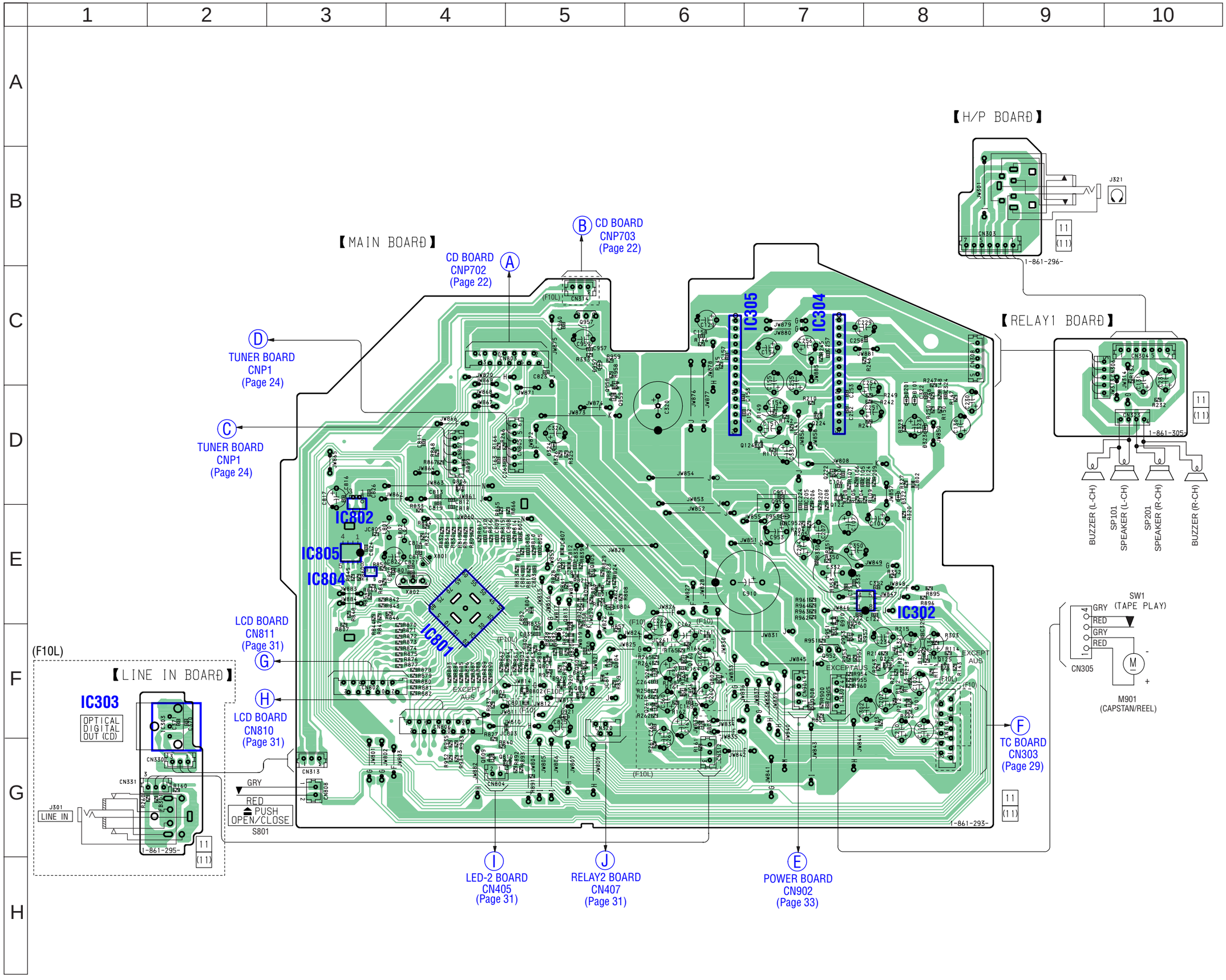
	C49	C43	R40
F10	0.01	22p	220k
F10L	0.1	47p	470k

	F10	F10L
R52	0	100
R53	15k	4.7k
R63	10k	4.7k
C53	0.22	0.47
C59	100p	0.001

- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
- ( ): MW
- [ ]: L W

6-6. PRINTED WIRING BOARDS – MAIN SECTION –

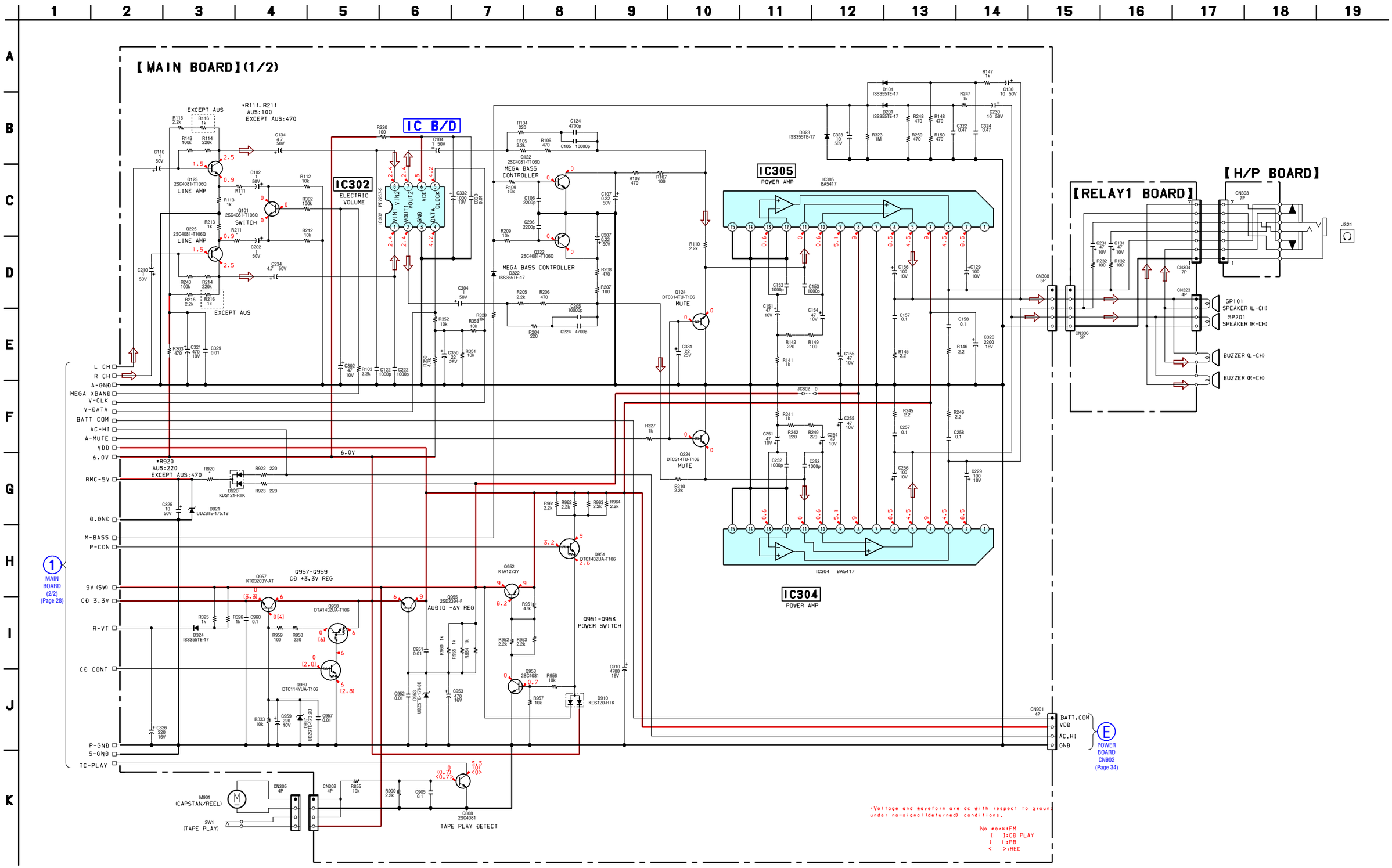
• Refer to page 18 for Circuit Boards Location. • : Uses unleaded solder.



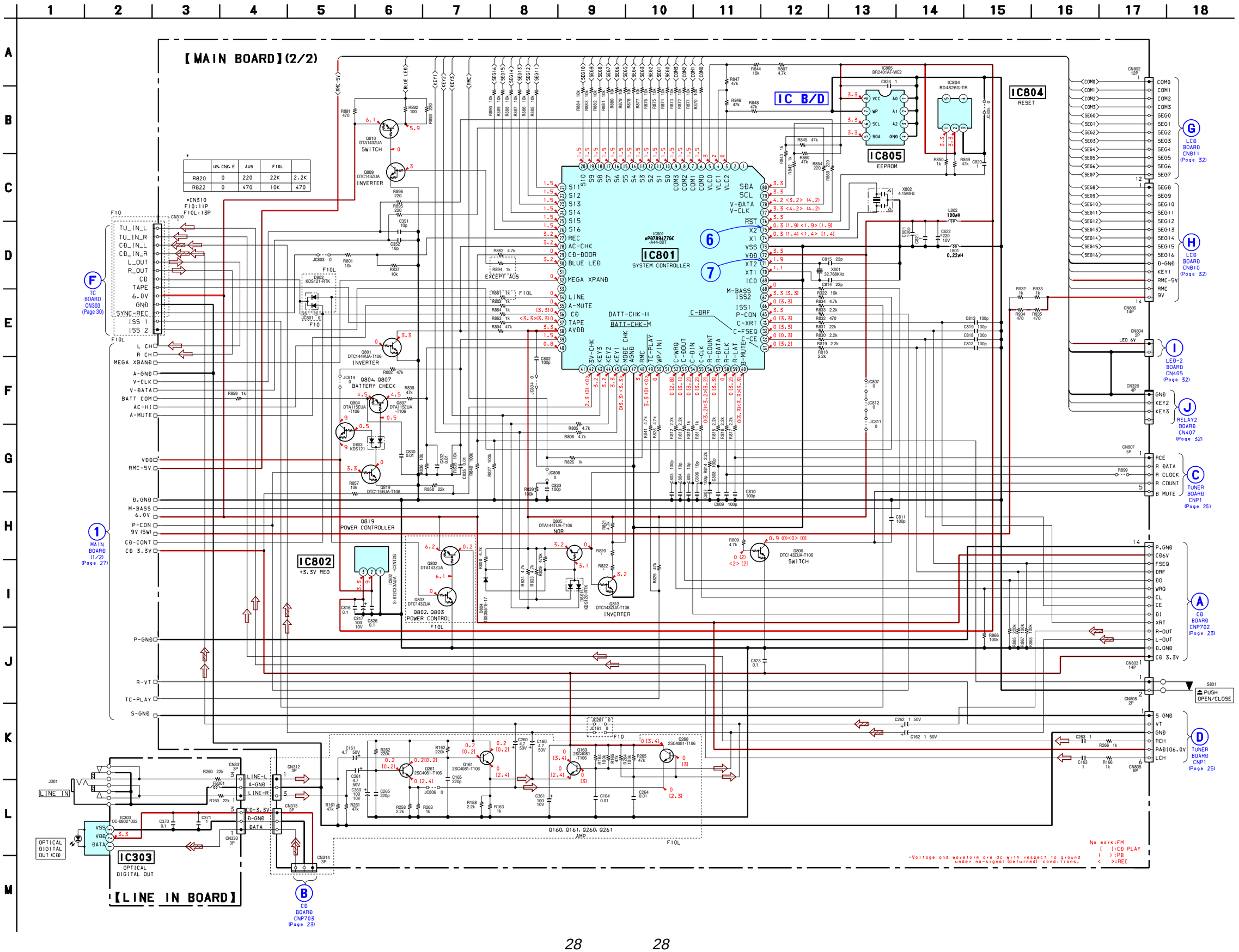
• Semiconductor Location

Ref. No.	Location
D101	D-8
D201	D-8
D322	D-8
D323	D-8
D324	D-5
D801	E-5
D802	F-5
D803	F-5
D804	E-5
D910	E-7
D920	F-5
D921	F-5
D953	E-7
D957	C-5
IC302	E-8
IC303	F-1
IC304	C-7
IC305	C-7
IC801	F-4
IC802	D-3
IC804	E-3
IC805	E-3
Q101	F-8
Q122	D-7
Q124	D-7
Q125	F-8
Q160	F-6
Q161	F-6
Q222	D-7
Q224	D-7
Q225	F-8
Q260	F-6
Q261	F-6
Q801	F-5
Q802	F-6
Q803	F-6
Q804	F-6
Q805	E-5
Q806	F-6
Q807	E-5
Q808	F-7
Q809	G-4
Q810	G-4
Q813	E-5
Q819	F-5

6-7. SCHEMATIC DIAGRAM – MAIN SECTION (1/2) –

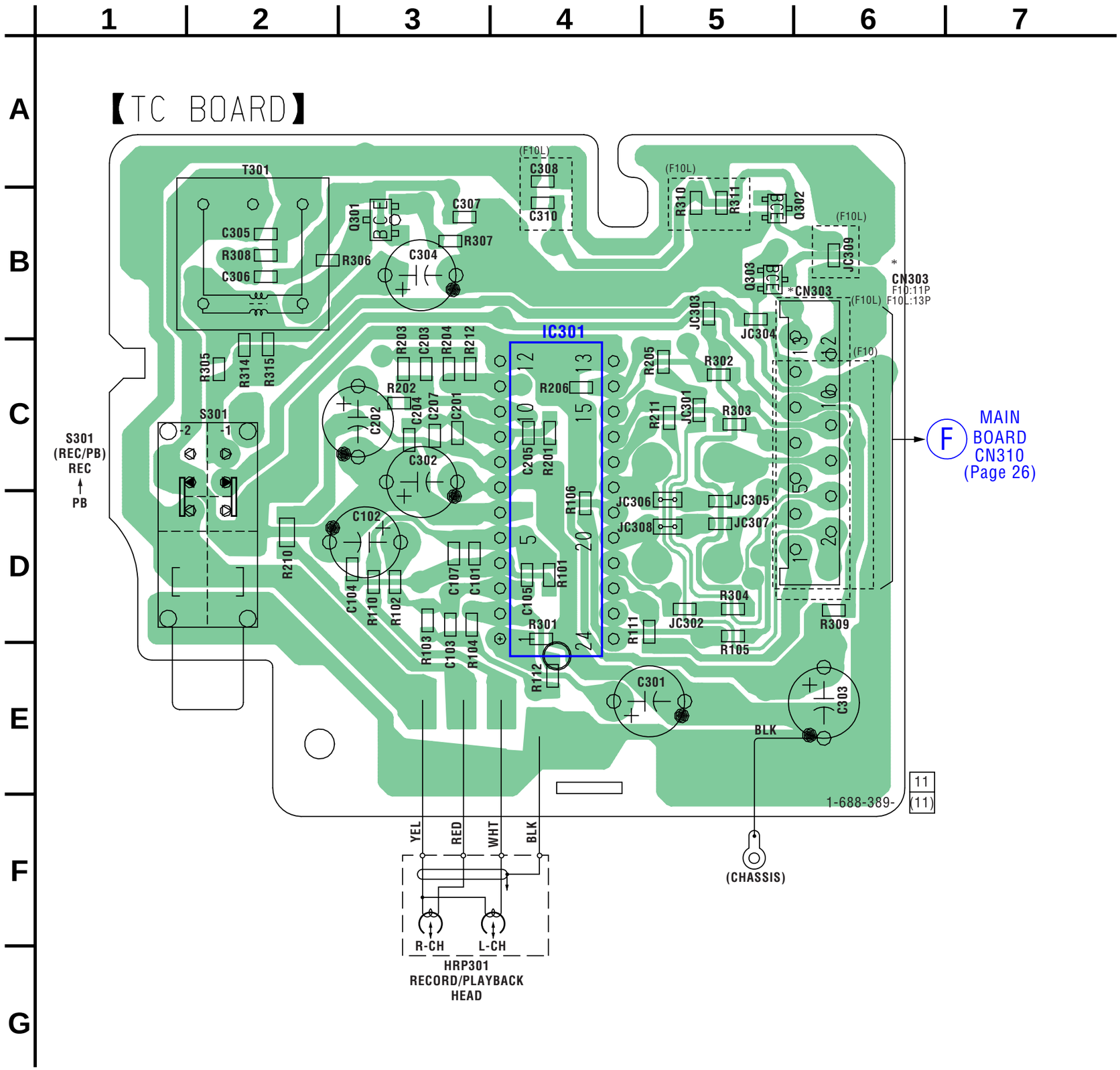


6-8. SCHEMATIC DIAGRAM – MAIN SECTION (2/2) – • Refer to page 38 for IC Pin Function Description.

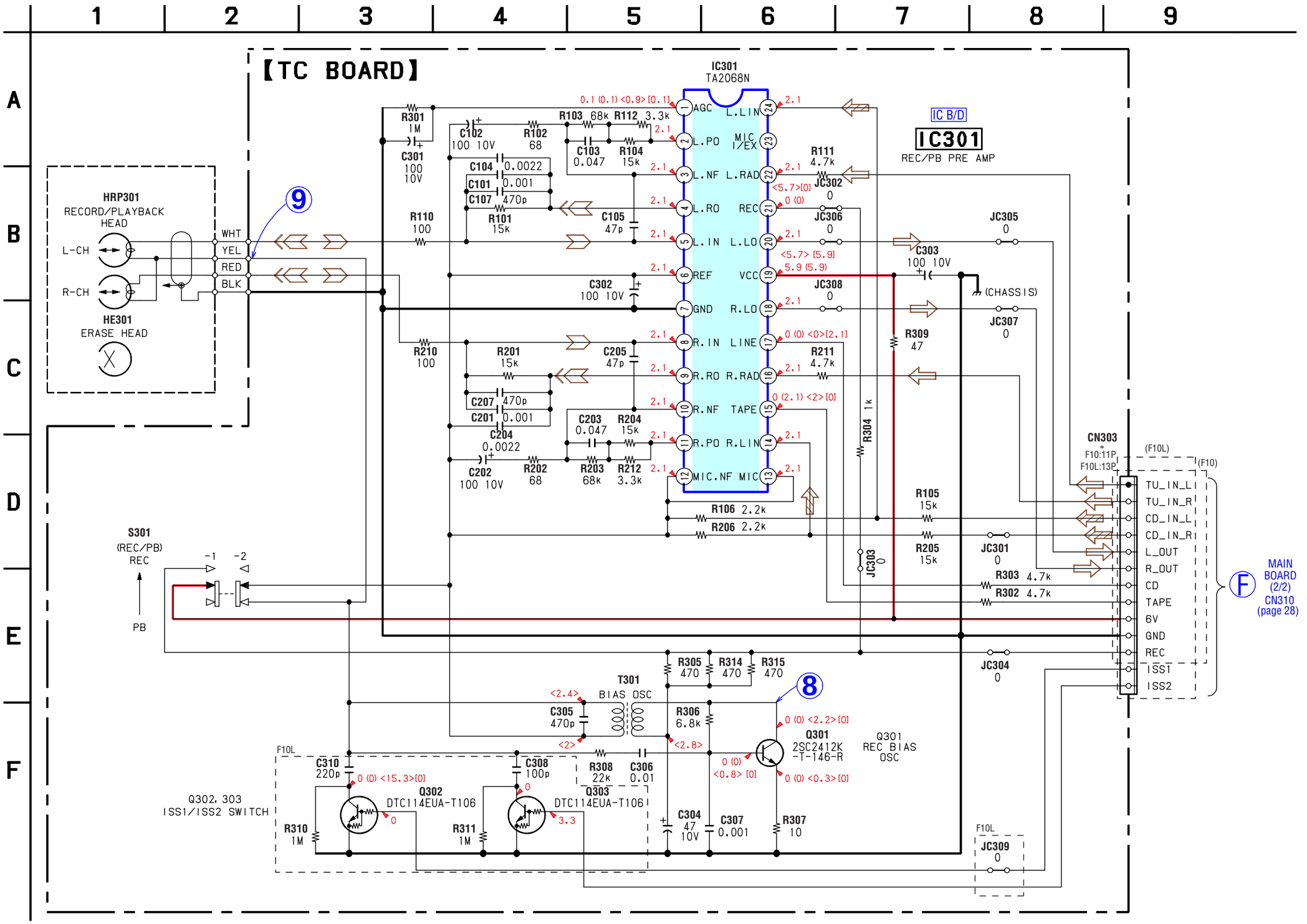


	US, CND, E	AUS	F10L	
R820	0	220	22K	2.2K
R822	0	470	10K	470

6-9. PRINTED WIRING BOARD – TC SECTION – • Refer to page 18 for Circuit Boards Location.

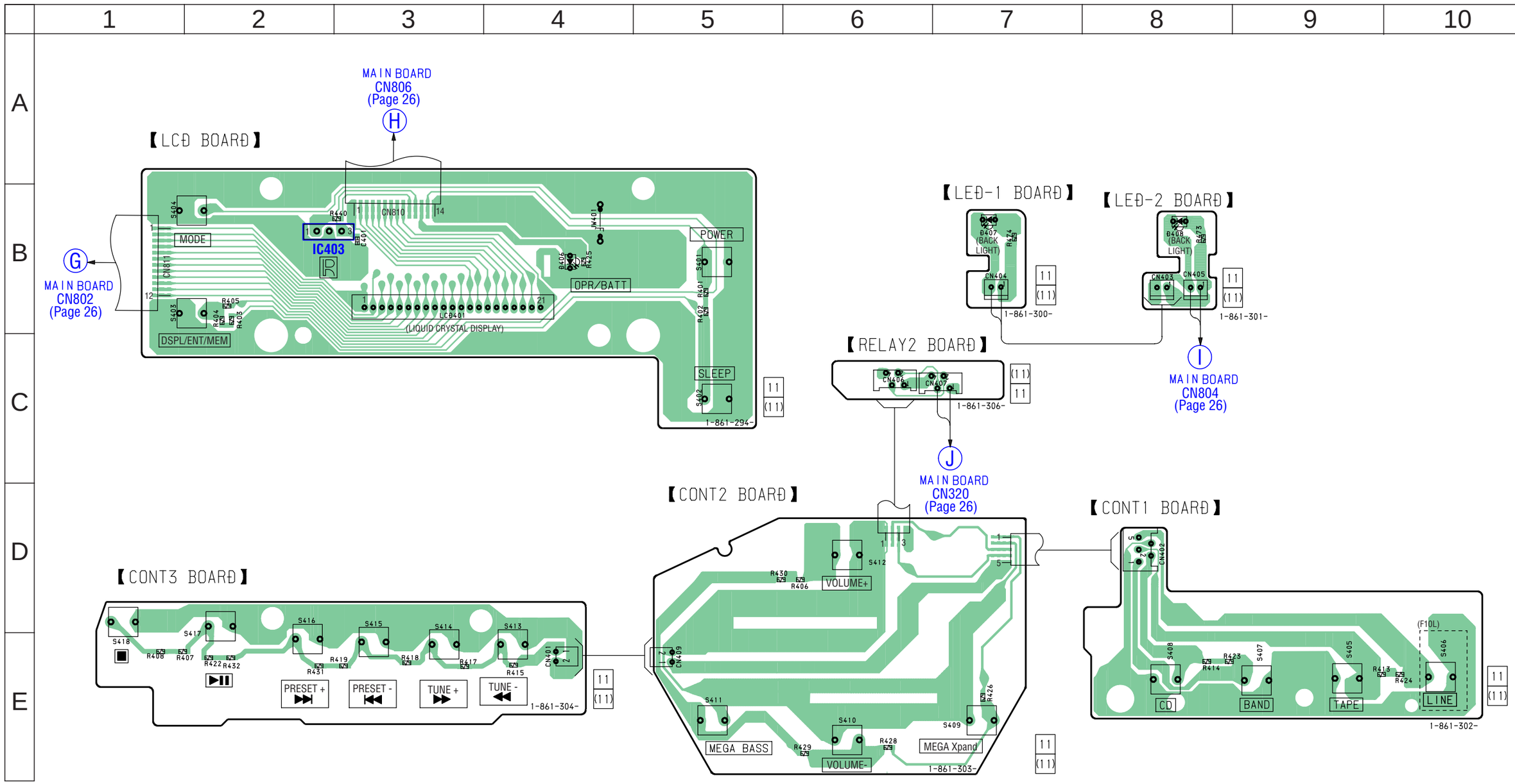


6-10. SCHEMATIC DIAGRAM – TC SECTION –

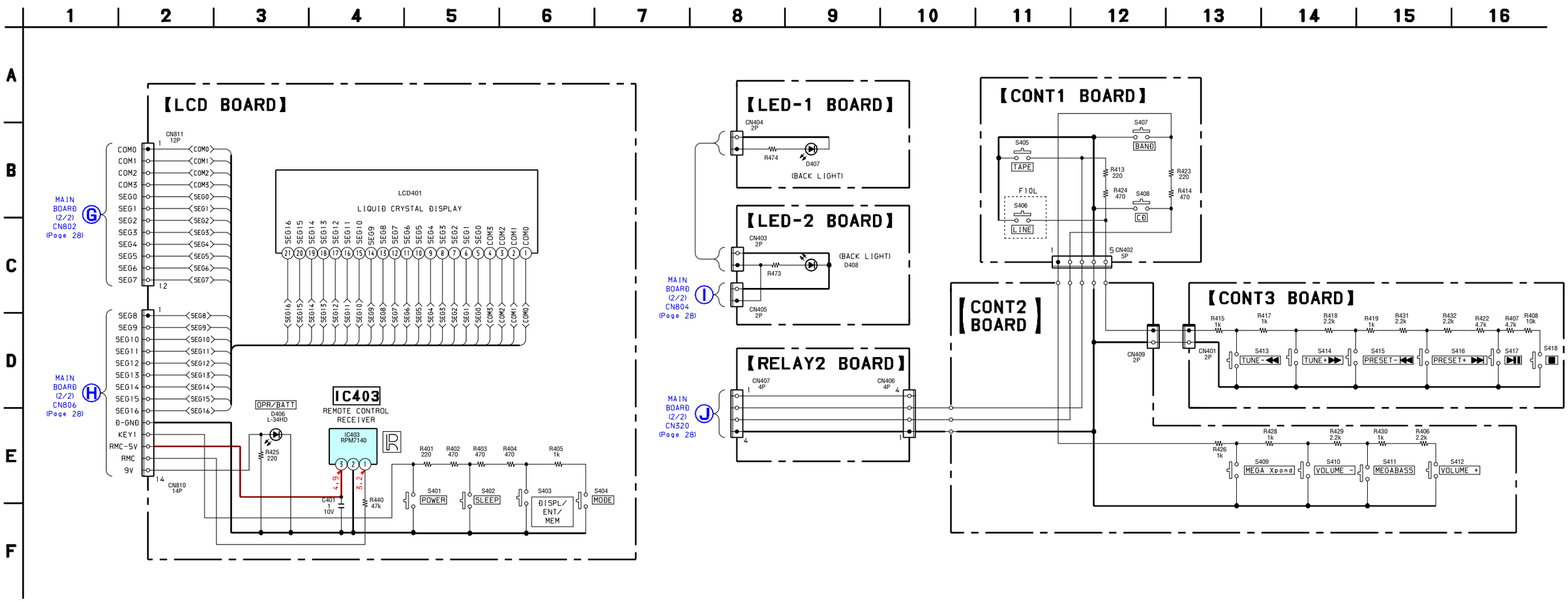


•Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
( ): PB
< >: REC
[ ]: CD PLAY

6-11. PRINTED WIRING BOARDS – CONTROL SECTION – • Refer to page 18 for Circuit Boards Location. • : Uses unleaded solder.



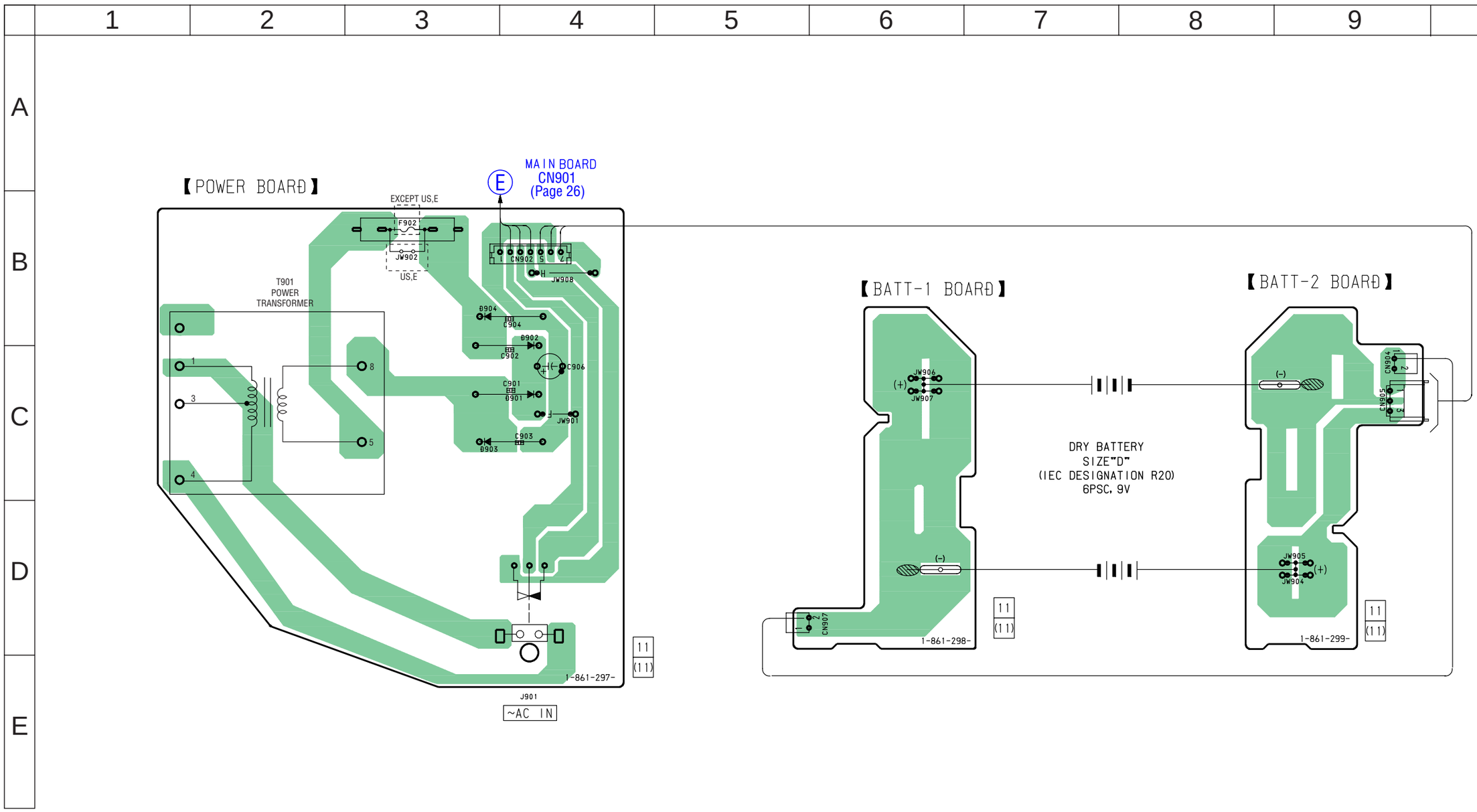
6-12. SCHEMATIC DIAGRAM – CONTROL SECTION –



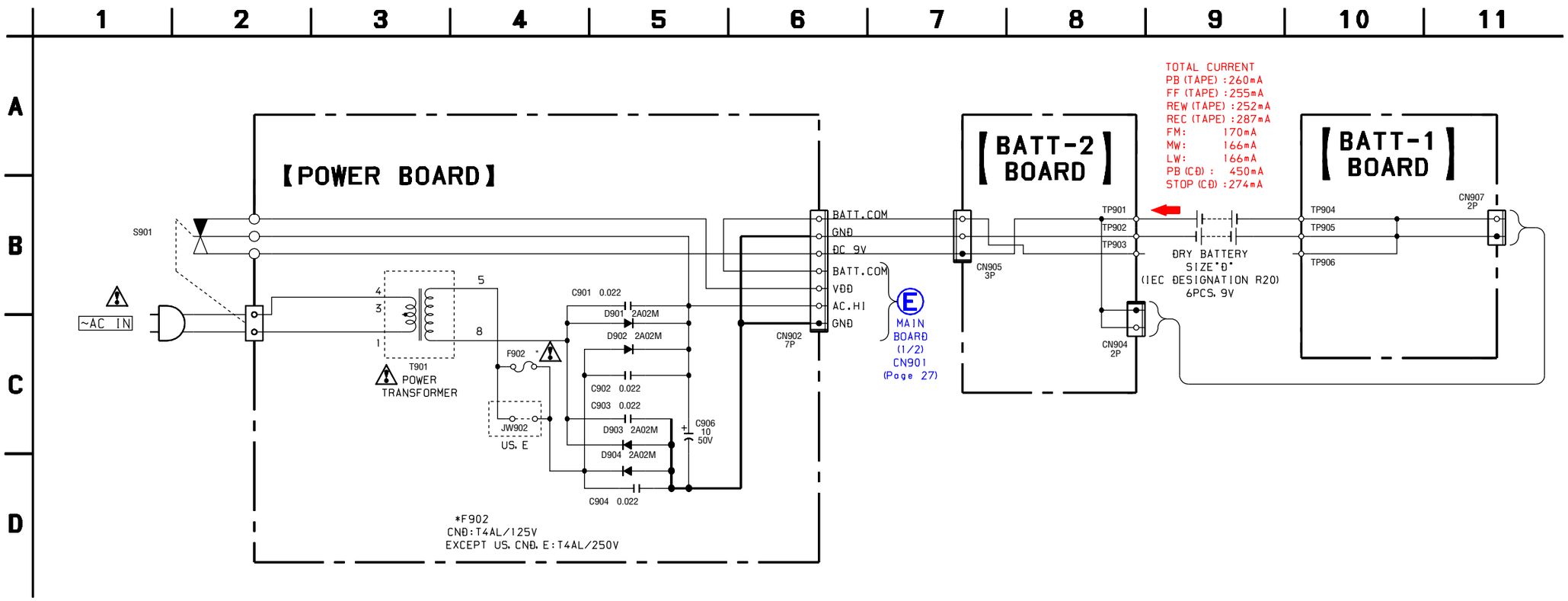
6-13. PRINTED WIRING BOARDS — POWER SUPPLY SECTION —

• Refer to page 18 for Circuit Boards Location.

• : Uses unleaded solder.

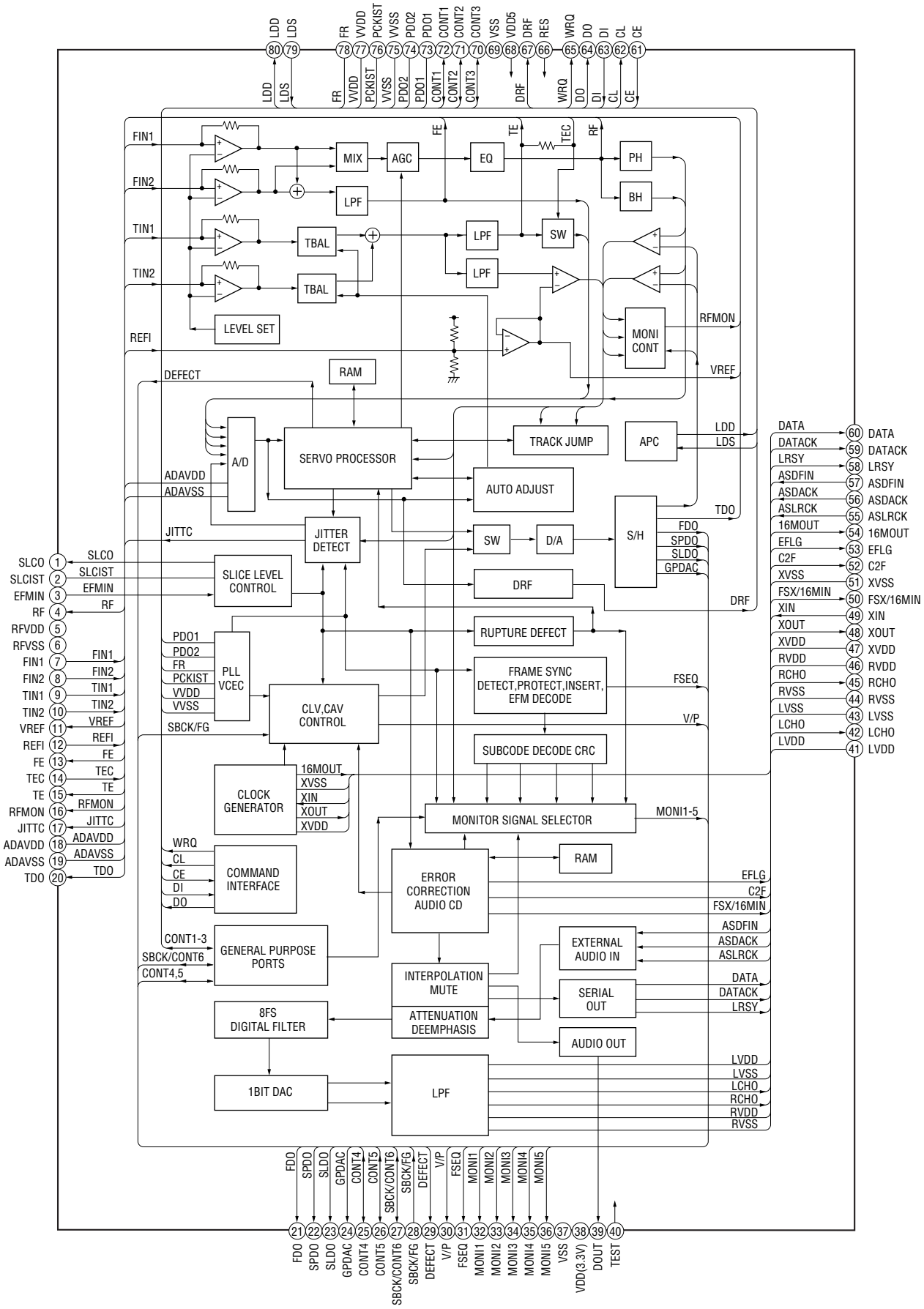


6-14. SCHEMATIC DIAGRAM – POWER SUPPLY SECTION –

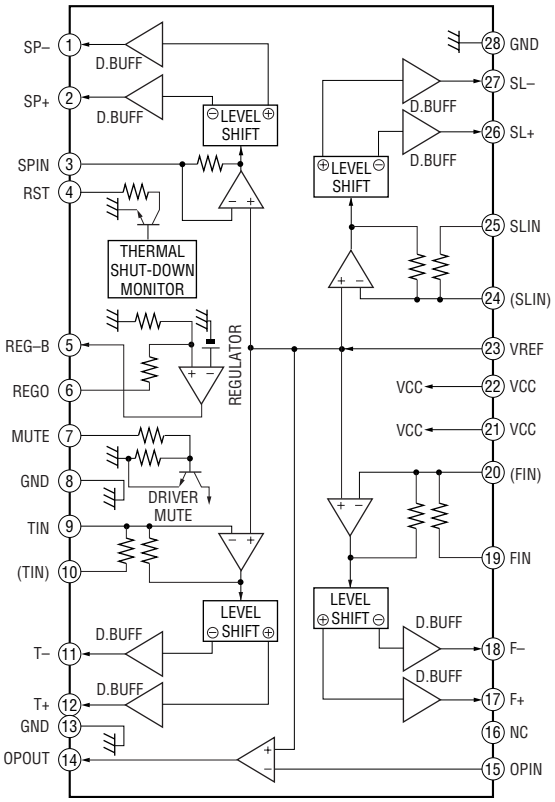


• IC BLOCK DIAGRAMS

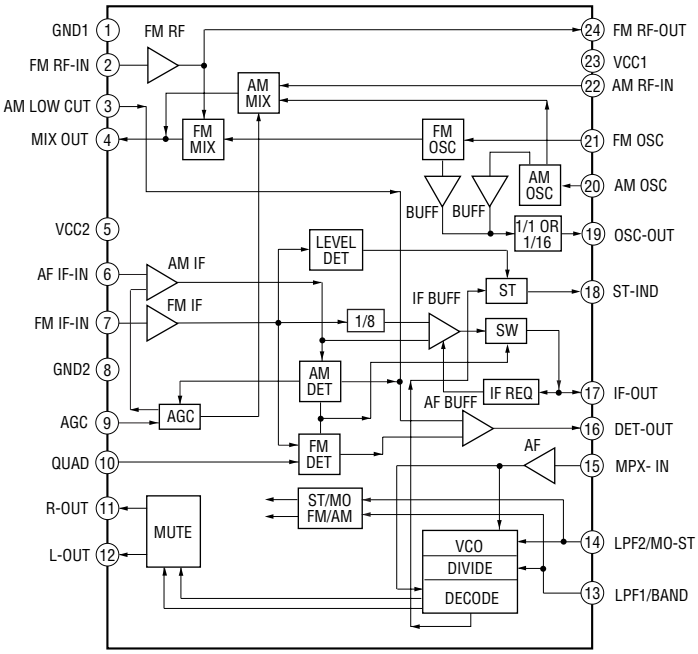
IC701 LC78646E-E (CD Board)



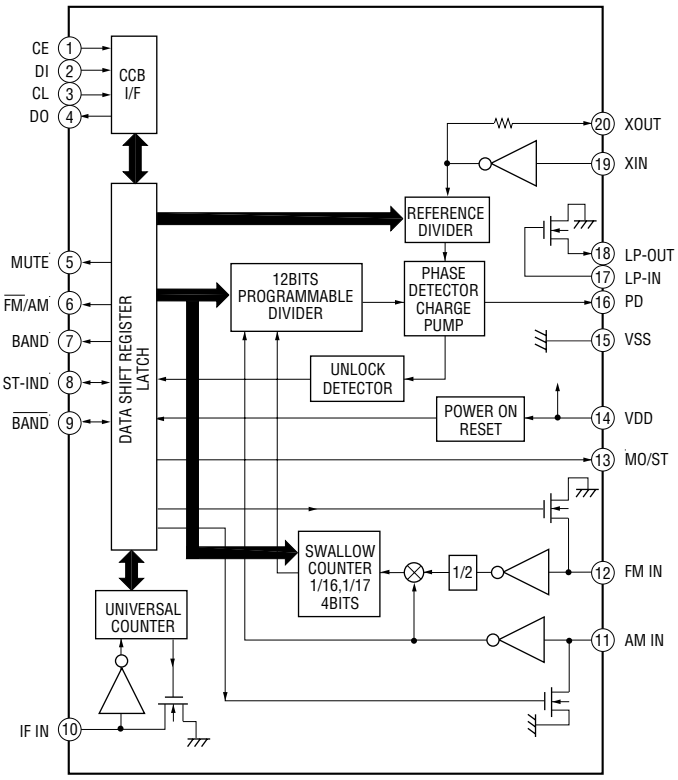
IC702 BA5826FP-E2 (CD Board)



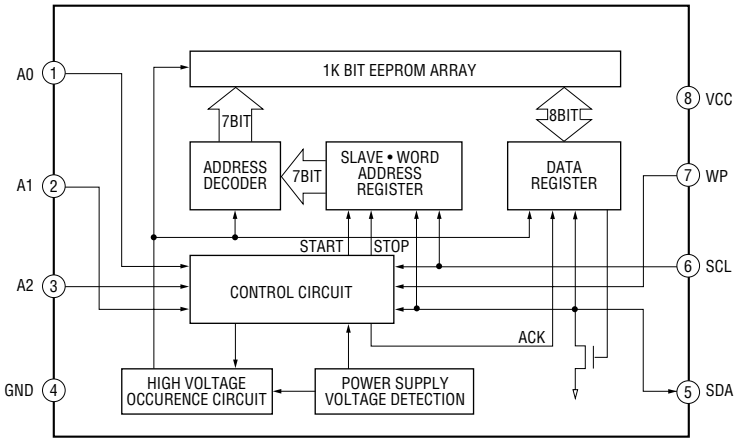
IC1 TA2149BN (TUNER Board)



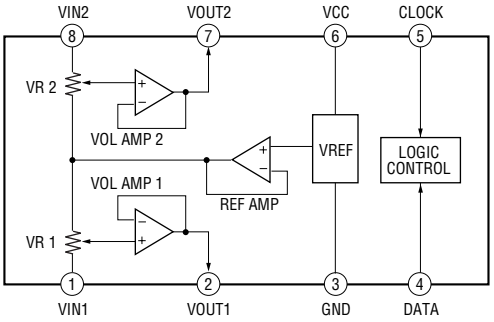
IC2 LC72137M-TLM-E (TUNER Board)



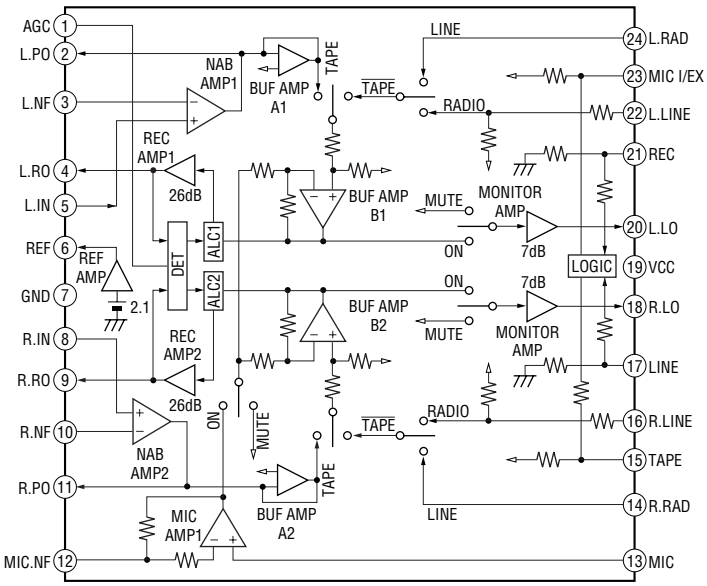
IC805 BR24L01AF-WE2 (MAIN Board)



IC302 PT2257-S (MAIN Board)



IC301 TA2068N (TC Board)



6-15. IC PIN FUNCTION DESCRIPTION

• IC801 uPD789477GC-A44-8BT (SYSTEM CONTROLLER) (MAIN BOARD)

Pin No.	Pin Name	I/O	Pin Description
1, 2	NC	—	Not used. (Open)
3 to 5	VLC2 to 0	I	LCD drive bias voltage input
6 to 9	COM0 to 3	O	LCD drive common output
10 to 26	S0 to 16	O	LCD drive segment output
27	REC	I	Tape record signal input H: REC
28	AC-CHK	I	AC power supply detection signal input L: AC in
29	CD-DOOR	I	CD door open/close switch input L: Close
30	BLUE LED	O	BLUE LED control signal output
31	NC	—	Not used. (Open)
32	MEGA XPAND	O	MEGA XPAND control signal output
33	NC	—	Not used. (Open)
34	LINE	O	LINE IN control signal output
35	A-MUTE	O	Audio mute output H: Mute
36	CD	O	CD function output H: CD
37	TAPE	O	Tape function output H: Tape
38	AVDD	—	Analog power supply pin for A/D converter (+3.3 V)
39	BTT-CHK-H	I	Battery check input for Hi-voltage
40	BTT-CHK-M	I	Battery check input for Mid-voltage
41	NC	—	Not used. (Open)
42	3V-CHK	I	Power supply check input (CD +3.3V)
43 to 45	KEY3 to 1	I	Key input
46	MODE CHK	I	Destination setting input
47	AGND	—	Analog ground for A/D converter
48	RMC	I	Sircs receiver data input
49	$\overline{\text{TC-PLAY}}$	I	Tape play switch input L: Play
50	WP/INI	O	Wake-up/Initial setting read signal output
51	NC	—	Not used. (Open)
52	C-WRQ	I	CD write request data input
53	C-DOUT	I	CD digital signal processor data input
54	C-DIN	O	CD digital signal processor data output
55	C-CLK	I	CD serial data transfer clock signal input
56	R-COUNT	I	Tuner PLL IF count input
57	R-DATA	O	Tuner PLL data output
58	R-CLK	O	Tuner PLL clock output
59	R-LAT	O	Tuner PLL latch output
60	B-MUTE	O	Tuner mute signal output H: Mute
61	C-DRF	I	CD DRF signal input
62	C-CE	O	CD chip enable output
63	C-FSEQ	I	CD frame SYNC input
64	C-XRT	O	CD system reset output
65	P-CON	O	System power control output H: PCON
66	ISS1	O	ISS1 output
67	ISS2	O	ISS2 output
68	M-BASS	O	MEGA BASS control output H: MEGA BASS off, L: MEGA BASS on
69	ICO	I	Connected to VSS.
70	XT1	I	Sub system oscillation input (32.768 kHz)
71	XT2	O	Sub system oscillation output (32.768 kHz)
72	VDD	—	Main power supply pin for A/D converter (+3.3 V)
73	VSS	—	Main ground
74	X1	I	Main system oscillation input (4.19 MHz)

Pin No.	Pin Name	I/O	Pin Description
75	X2	O	Main system oscillation output (4.19 MHz)
76	$\overline{\text{RST}}$	I	System reset input
77	V-CLK	O	Volume clock output
78	V-DATA	O	Volume data output
79	SCL	O	EEPROM clock output
80	SDA	I/O	EEPROM input/output

SECTION 7
EXPLODED VIEWS

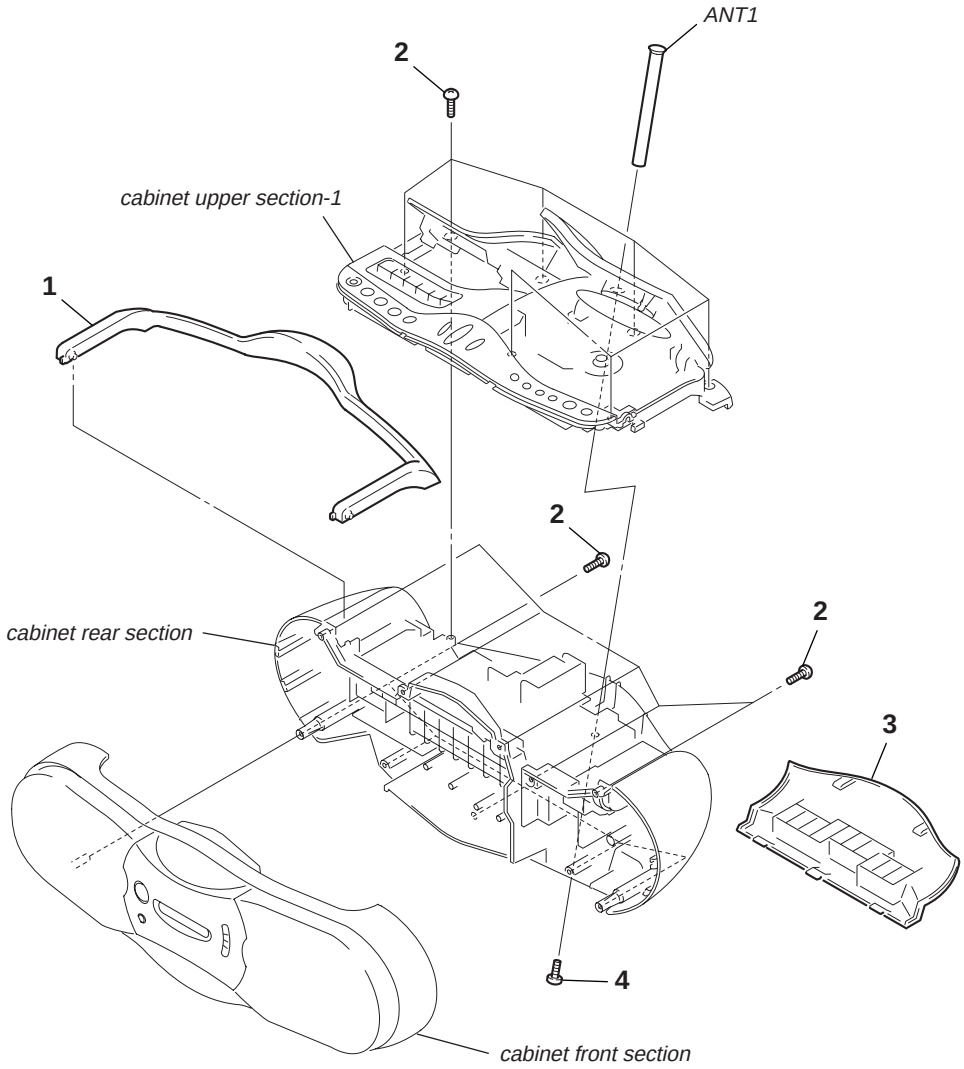
NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Abbreviation
  AR : Argentina model
  CND : Canadian model
  IT : Italian model
  EE : East European model
  KR : Korean model
  SP : Singapore model
  TW : Taiwan model
  AUS : Australian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

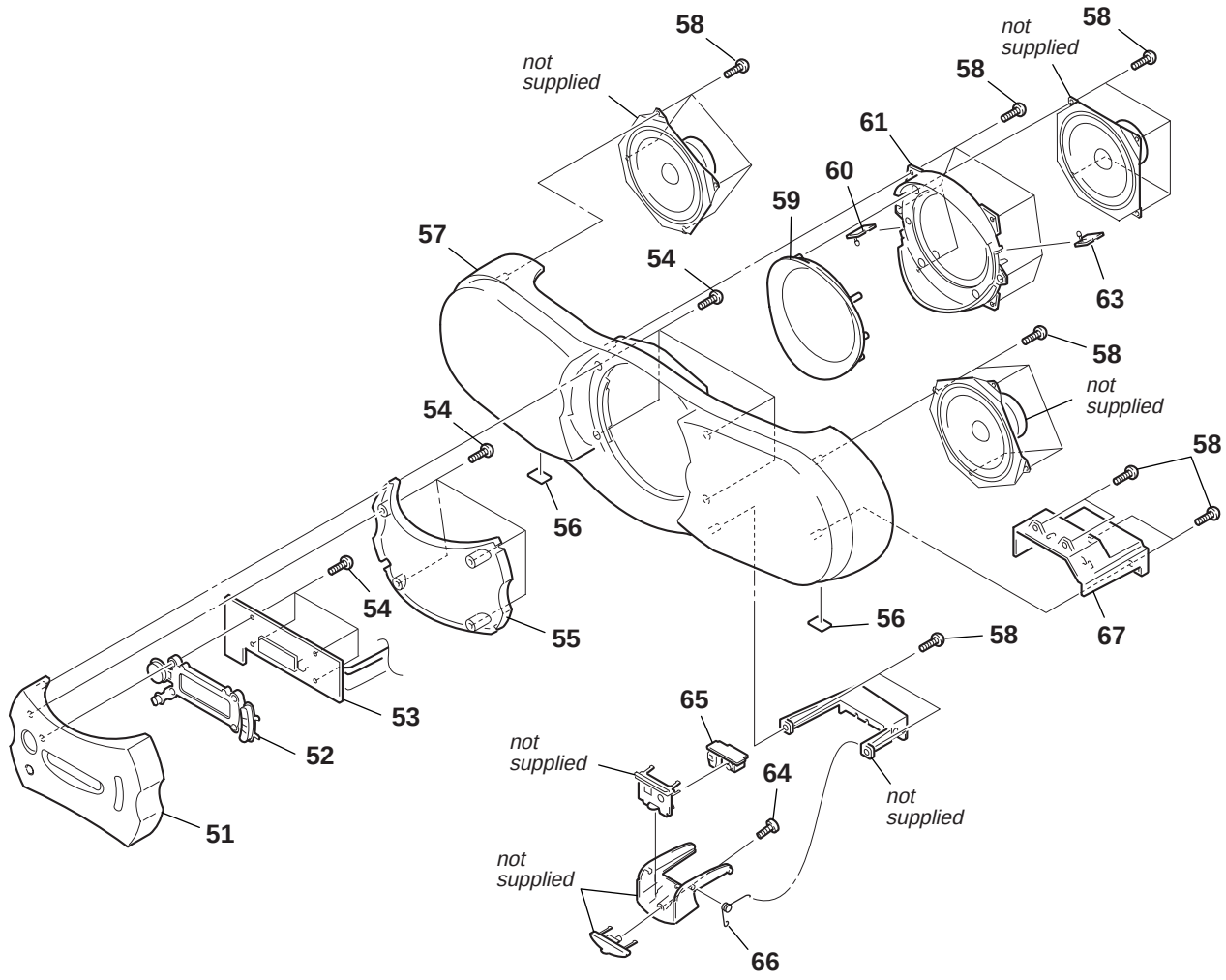
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	3-261-747-01	HANDLE	
2	3-254-145-11	SCREW (B3), (+) BV TAPPING	
3	3-261-728-01	LID, BATTERY	
4	3-252-833-01	SCREW (M3), (+) P	
ANT1	1-754-321-11	ANTENNA, TELESCOPIC (EXCEPT E, AUS)	
ANT1	1-754-321-11	ANTENNA, TELESCOPIC (E, AUS)	

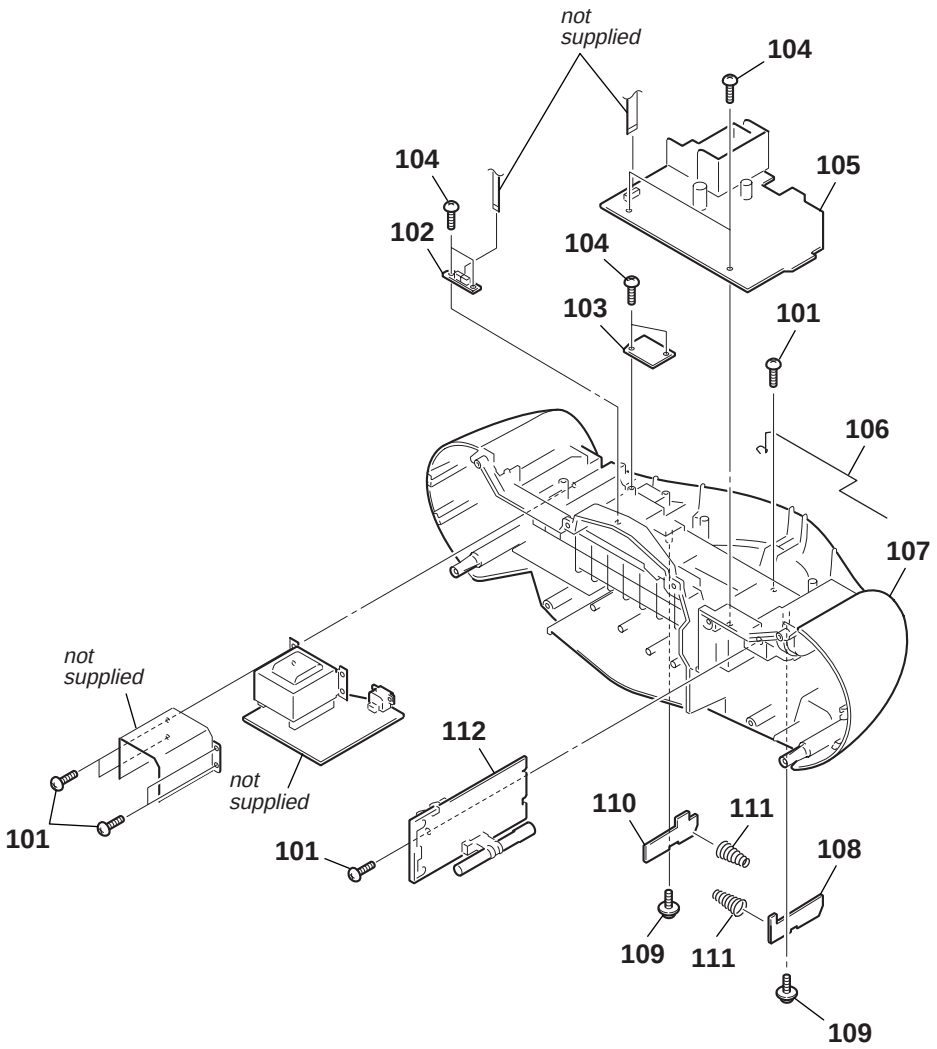
7-2. CABINET FRONT SECTION



Ref. No.	Part No.	Description	Remark
51	X-3384-800-1	COVER FRONT SUB ASSY (F10)	
51	X-3384-801-1	COVER FRONT SUB ASSY (F10L)	
52	3-262-436-01	BUTTON POWER	
* 53	A-4547-328-A	LCD BOARD, COMPLETE	
54	3-254-140-01	SCREW (B2.6), (+) BV TAPPING	
55	3-261-737-01	COVER REAR	
56	3-040-916-01	FOOT (FRONT), RUBBER	
57	X-3384-431-1	CABINET FRONT SUB ASSY (US, AR)	
57	X-3384-432-1	CABINET FRONT SUB ASSY (F10L)	
57	X-3384-922-1	CABINET FRONT SUB ASSY (CND, KR, SP, E, TW AUS)	

Ref. No.	Part No.	Description	Remark
58	3-254-143-01	SCREW (B3), (+) BV TAPPING	
59	X-3384-802-1	COVER SPEAKER SUB ASSY	
* 60	1-861-300-11	LED-1 BOARD	
61	X-3384-890-1	CHASSIS BACK LIGHT SUB ASSY	
* 63	1-861-301-11	LED-2 BOARD	
64	3-253-143-01	SCREW (B2.6), (+) P TAPPING (F10L)	
* 65	1-861-295-11	LINE IN BOARD	
66	3-261-719-01	SPRING MD LINK (F10L)	
67	3-261-740-01	CASE MD LINK (F10L)	

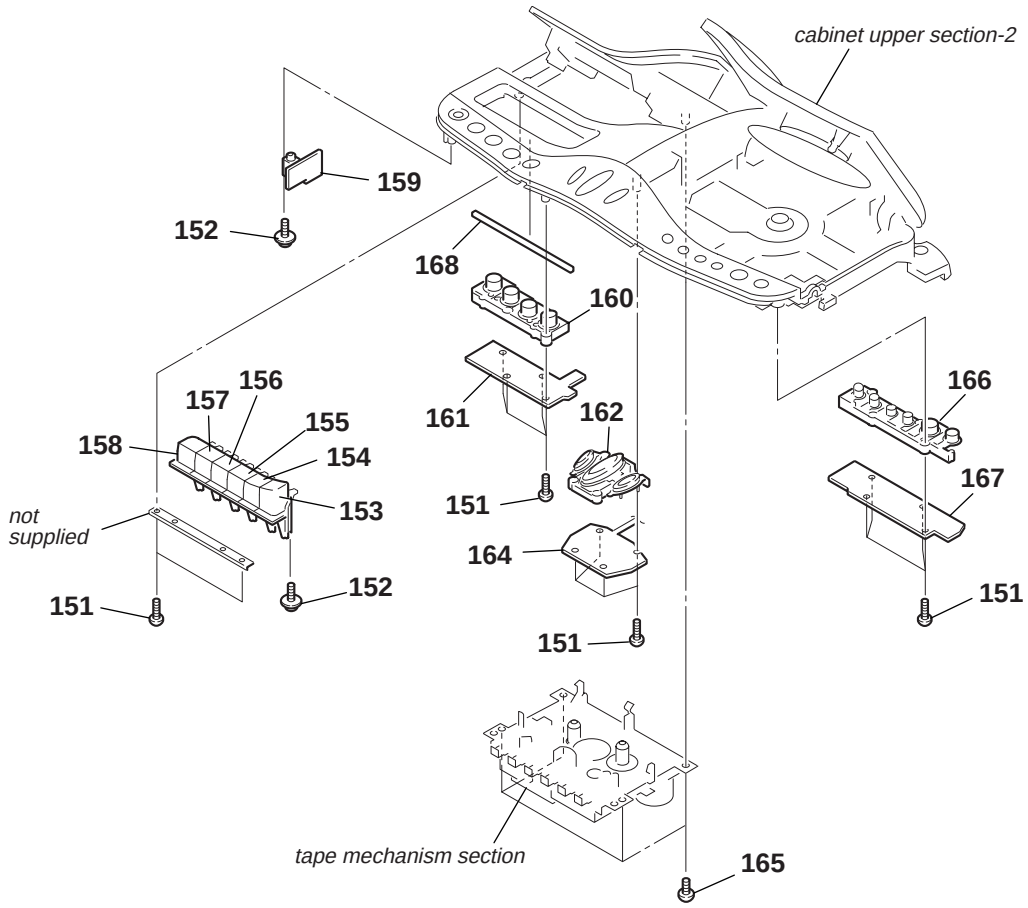
7-3. CABINET REAR SECTION



Ref. No.	Part No.	Description	Remark
101	3-254-143-01	SCREW (B3), (+) BV TAPPING	
* 102	1-861-306-11	RELAY2 BOARD	
* 103	1-861-305-11	RELAY1 BOARD	
104	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
* 105	A-4547-322-A	MAIN BOARD, COMPLETE (US, CND, E)	
* 105	A-4547-332-A	MAIN BOARD, COMPLETE (F10L)	
* 105	A-4547-338-A	MAIN BOARD, COMPLETE (SP, AR)	
105	A-4547-671-A	MAIN BOARD, COMPLETE (KR, TW, AUS)	
106	3-261-722-01	TERMINAL ANTENNA	
107	2-177-091-01	CABINET REAR (AR)	
107	3-261-756-61	CABINET REAR (AUS)	
107	3-261-756-01	CABINET REAR (US)	
107	3-261-756-11	CABINET REAR (AEP, UK, IT)	

Ref. No.	Part No.	Description	Remark
107	3-261-756-21	CABINET REAR (EE)	
107	3-261-756-31	CABINET REAR (CND)	
107	3-261-756-41	CABINET REAR (SP)	
107	3-261-756-51	CABINET REAR (E)	
107	3-261-756-71	CABINET REAR (KR)	
107	3-261-756-81	CABINET REAR (TW)	
* 108	1-861-298-11	BATT-1 BOARD	
109	3-252-830-01	SCREW (B3), (+) PWH TAPPING	
* 110	1-861-299-11	BATT-2 BOARD	
111	3-240-561-02	TERMINAL (-), BATTERY	
* 112	A-4547-323-A	TUNER BOARD, COMPLETE (US, CND, E)	
* 112	A-4547-333-A	TUNER BOARD, COMPLETE (F10L)	
* 112	A-4547-406-A	TUNER BOARD, COMPLETE (KR, SP, TW, AR, AUS)	

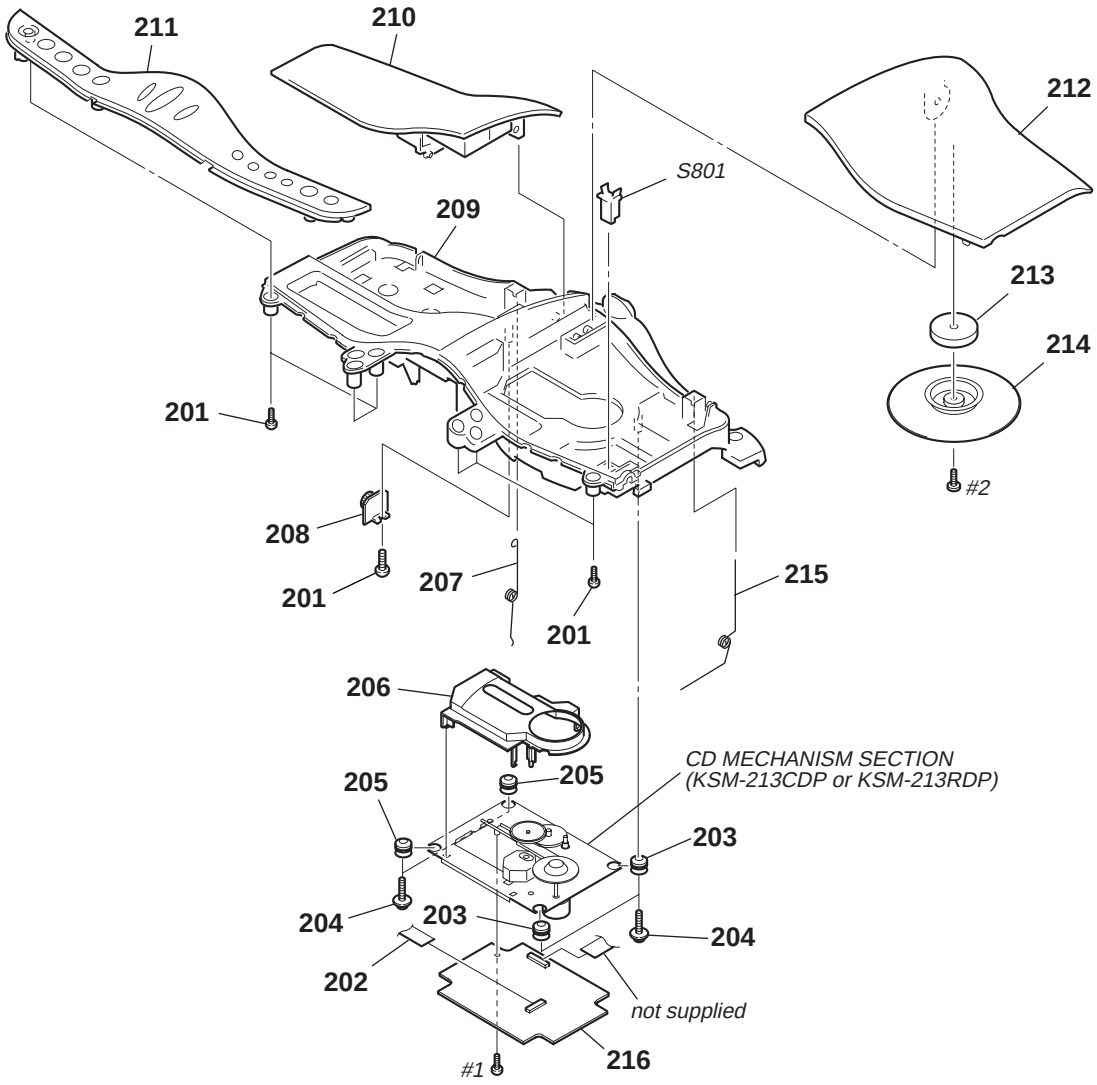
7-4. CABINET UPPER SECTION-1



Ref. No.	Part No.	Description	Remark
151	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
152	3-252-828-01	SCREW (B2.6), (+) PWH TAPPING	
153	3-261-750-01	KNOB (MD) (PAUSE) (F10)	
153	3-261-750-01	KNOB (MD) (PAUSE) (F10L)	
154	3-261-751-01	KNOB (MD) (STOP/EJECT) (F10)	
154	3-261-751-01	KNOB (MD) (STOP/EJECT) (F10L)	
155	3-261-753-01	KNOB (MD) (FWD)	
156	3-261-752-01	KNOB (MD) (REW)	
157	3-261-754-01	KNOB (MD) (PLAY)	
158	3-261-755-01	KNOB (MD) (REC)	

Ref. No.	Part No.	Description	Remark
159	1-861-296-11	H/P BOARD	
160	3-261-733-01	BUTTON FUNCTION (F10)	
160	3-261-733-11	BUTTON FUNCTION (F10L)	
* 161	1-861-302-11	CONT 1 BOARD	
162	3-261-735-01	BUTTON VOLUME	
* 164	1-861-303-11	CONT 2 BOARD	
165	3-254-143-01	SCREW (B3), (+) BV TAPPING	
166	3-261-734-01	BUTTON CD	
* 167	1-861-304-11	CONT 3 BOARD	
168	3-252-613-01	CUSHION (MD BUTTON)	

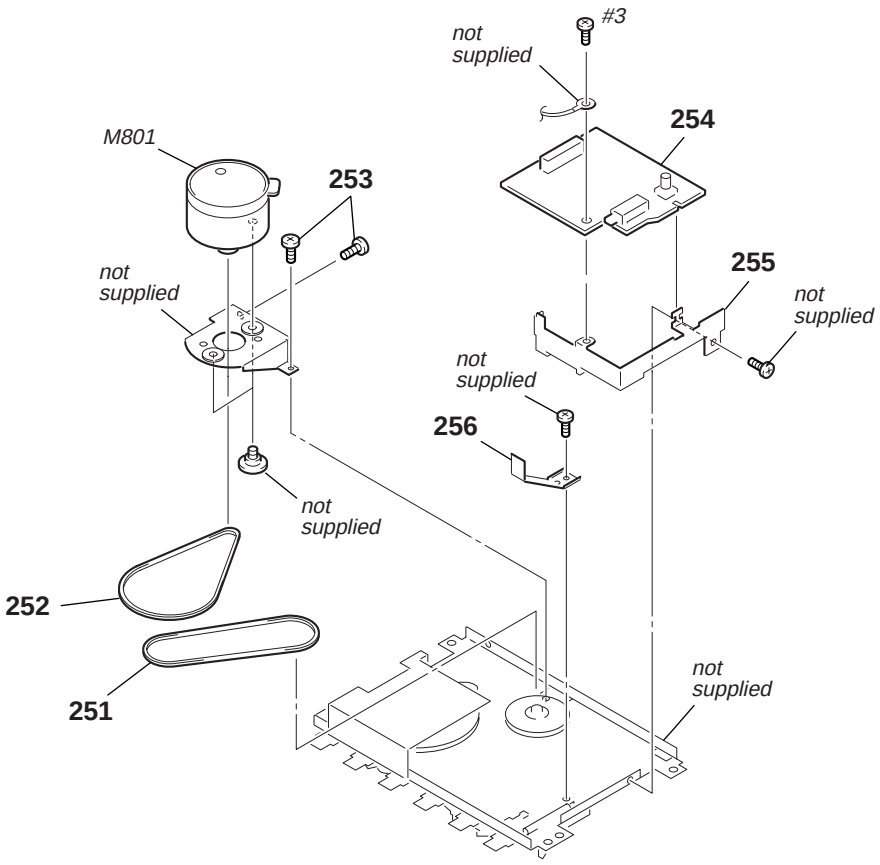
7-5. CABINET UPPER SECTION-2



Ref. No.	Part No.	Description	Remark
201	3-254-143-01	SCREW (B3), (+) BV TAPPING	
202	1-757-689-11	CABLE, FLEXIBLE FLAT (16 CORE)	
203	3-931-379-31	RUBBER, VIBRATION PROOF	
204	3-252-828-01	SCREW (B2.6), (+) PWH TAPPING	
205	3-931-379-21	RUBBER, VIBRATION PROOF	
206	3-923-736-01	COVER, CD	
207	3-261-718-01	SPRING CASSETTE	
208	3-047-468-11	DAMPER	
209	3-261-746-01	CABINET UPPER (US, AR)	
209	3-261-746-11	CABINET UPPER (EXCEPT US)	
210	3-261-749-01	LID CASSETTE	
211	3-261-732-01	PANEL, BUTTON (US, AR)	

Ref. No.	Part No.	Description	Remark
211	3-261-732-11	PANEL, BUTTON (F10L)	
211	3-261-732-21	PANEL, BUTTON (CND, E, KR, SP, TW, AUS)	
212	3-261-748-01	LID CD	
213	1-452-899-11	MAGNET	
214	3-019-395-01	PLATE, CHUCKING	
215	3-261-717-01	SPRING CD	
* 216	A-3347-785-A	CD BOARD, COMPLETE (F10L)	
* 216	A-4542-980-A	CD BOARD, COMPLETE (F10)	
S801	1-692-960-11	SWITCH, PUSH (1 KEY)	
#1	7-685-853-01	+BVTT 2X6 TYPE2 (S)	
#2	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	

7-6. TAPE MECHANISM DECK SECTION (MF-F10)



Ref. No.	Part No.	Description	Remark
251	3-244-079-01	BELT (B), SUB	
252	3-244-080-01	BELT (B), MAIN	
253	3-244-083-01	+SCREW BIND DT M2X6	
* 254	A-3683-864-A	TC BOARD, COMPLETE (F10L)	
* 254	A-4547-315-A	TC BOARD, COMPLETE (F10)	

Ref. No.	Part No.	Description	Remark
255	3-237-719-02	CHASSIS, TC	
256	3-237-718-01	LEVER REC	
M801	3-244-082-01	PULLEY (MOTOR)	
#3	7-685-851-01	SCREW BV 2X4 CR-N4	

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- CAPACITORS
  uF : µF
- COILS
  uH : µH
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- Abbreviation
  AR : Argentina model
  CND : Canadian model
  IT : Italian model
  EE : East European model
  KR : Korean model
  SP : Singapore model
  TW : Taiwan model
  AUS : Australian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Accessories are given in the last of this parts list.

Ref. No.	Part No.	Description			Remark
*	1-861-298-11	BATT-1 BOARD			
		**********			
	3-240-561-02	TERMINAL (-), BATTERY			
		< CONNECTOR >			
* CN907	1-815-550-11	PIN, CONNECTOR (PWB) 2P			
**********					
*	1-861-299-11	BATT-2 BOARD			
		**********			
	3-240-561-02	TERMINAL (-), BATTERY			
		< CONNECTOR >			
* CN904	1-815-550-11	PIN, CONNECTOR (PWB) 2P			
* CN905	1-815-551-11	PIN, CONNECTOR (PWB) 3P			
**********					
*	A-3347-785-A	CD BOARD, COMPLETE (F10L)			
*	A-4542-980-A	CD BOARD, COMPLETE (F10)			
		**********			
		< CAPACITOR >			
C701	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C702	1-126-947-11	ELECT	47uF	20%	35V
C703	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C704	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C705	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C706	1-126-960-11	ELECT	1uF	20%	50V
C707	1-115-156-11	CERAMIC CHIP	1uF		10V
C708	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C709	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C711	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C716	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C717	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C718	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (F10L)
C719	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (F10L)
C720	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C721	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C722	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C723	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C724	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C725	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C726	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C727	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C728	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C729	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C730	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C731	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C732	1-104-658-91	ELECT	100uF	20%	10V
C733	1-104-658-91	ELECT	100uF	20%	10V
C734	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C735	1-126-916-11	ELECT	1000uF	20%	6.3V
C736	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C738	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C739	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C740	1-126-925-91	ELECT	470uF	20%	10V
C741	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C742	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C743	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C744	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C745	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C746	1-104-658-91	ELECT	100uF	20%	10V
C747	1-104-658-91	ELECT	100uF	20%	10V
C750	1-104-658-91	ELECT	100uF	20%	10V
C751	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C754	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C755	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CNP701	1-779-553-21	CONNECTOR, FFC (LIF (NON-ZIF)) 16P			
* CNP702	1-784-736-11	CONNECTOR, FFC 14P			
* CNP703	1-815-551-11	PIN, CONNECTOR (PWB) 3P (F10L)			
		< FERRITE BEAD >			
FB701	1-469-701-21	FERRITE, EMI (SMD) (1608)			
		< IC >			
IC701	6-701-796-01	IC LC78646E-E			
IC702	6-701-787-11	IC BA5826FP-E2			
		< SHORT >			
JC701	1-216-864-11	SHORT CHIP	0		
JC702	1-216-864-11	SHORT CHIP	0		
JC703	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
		< COIL >			
L706	1-414-445-11	FERRITE, EMI (SMD) (1608)			
		< TRANSISTOR >			
Q701	8-729-054-57	TRANSISTOR	KTN2907AS-RTK		
		< RESISTOR >			
R701	1-216-841-11	METAL CHIP	47K	5%	1/10W
R702	1-216-833-11	METAL CHIP	10K	5%	1/10W
R703	1-216-833-11	METAL CHIP	10K	5%	1/10W
R704	1-216-833-11	METAL CHIP	10K	5%	1/10W
R705	1-216-833-11	METAL CHIP	10K	5%	1/10W
R706	1-216-841-11	METAL CHIP	47K	5%	1/10W
R707	1-216-797-11	METAL CHIP	10	5%	1/10W
R708	1-216-833-11	METAL CHIP	10K	5%	1/10W
R709	1-216-837-11	METAL CHIP	22K	5%	1/10W
R710	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R711	1-216-809-11	METAL CHIP	100	5%	1/10W
R712	1-216-809-11	METAL CHIP	100	5%	1/10W
R713	1-216-813-11	METAL CHIP	220	5%	1/10W
R714	1-216-809-11	METAL CHIP	100	5%	1/10W
R715	1-216-809-11	METAL CHIP	100	5%	1/10W
R716	1-216-821-11	METAL CHIP	1K	5%	1/10W
R717	1-216-821-11	METAL CHIP	1K	5%	1/10W
R718	1-216-821-11	METAL CHIP	1K	5%	1/10W
R719	1-216-809-11	METAL CHIP	100	5%	1/10W
R720	1-216-809-11	METAL CHIP	100	5%	1/10W
R721	1-216-821-11	METAL CHIP	1K	5%	1/10W
R722	1-216-809-11	METAL CHIP	100	5%	1/10W
R723	1-216-809-11	METAL CHIP	100	5%	1/10W
R724	1-216-841-11	METAL CHIP	47K	5%	1/10W
R725	1-216-813-11	METAL CHIP	220	5%	1/10W
R726	1-216-813-11	METAL CHIP	220	5%	1/10W
R727	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R728	1-216-833-11	METAL CHIP	10K	5%	1/10W
R729	1-216-813-11	METAL CHIP	220	5%	1/10W
R730	1-216-821-11	METAL CHIP	1K	5%	1/10W
R731	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R732	1-216-857-11	METAL CHIP	1M	5%	1/10W
R733	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R734	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R735	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R736	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R737	1-216-817-11	METAL CHIP	470	5%	1/10W
R738	1-216-817-11	METAL CHIP	470	5%	1/10W
R741	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R742	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R743	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R744	1-216-845-11	METAL CHIP	100K	5%	1/10W
R746	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R747	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< SWITCH >			
S701	1-571-936-11	SWITCH, LEAF			
		< VIBRATOR >			
X701	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz) (F10L)			

Ref. No.	Part No.	Description			Remark
X701	1-781-801-21	VIBRATOR, CERAMIC (16.93MHz) (F10)			
**********					
*	1-861-302-11	CONT1 BOARD			
		**********			
		< CONNECTOR >			
CN402	1-784-727-11	CONNECTOR, FFC 5P			
		< RESISTOR >			
R413	1-216-813-11	METAL CHIP	220	5%	1/10W
R414	1-216-817-11	METAL CHIP	470	5%	1/10W
R423	1-216-813-11	METAL CHIP	220	5%	1/10W
R424	1-216-817-11	METAL CHIP	470	5%	1/10W
		< SWITCH >			
S405	1-786-050-21	SWITCH, KEY BOARD (TAPE)			
S406	1-786-050-21	SWITCH, KEY BOARD (LINE) (F10L)			
S407	1-786-050-21	SWITCH, KEY BOARD (BAND)			
S408	1-786-050-21	SWITCH, KEY BOARD (CD)			
**********					
*	1-861-303-11	CONT2 BOARD			
		**********			
		< RESISTOR >			
R406	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R426	1-216-821-11	METAL CHIP	1K	5%	1/10W
R428	1-216-821-11	METAL CHIP	1K	5%	1/10W
R429	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R430	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< SWITCH >			
S409	1-786-050-21	SWITCH, KEY BOARD (MEGA Xpand)			
S410	1-786-050-21	SWITCH, KEY BOARD (VOLUME -)			
S411	1-786-050-21	SWITCH, KEY BOARD (VOLUME +)			
S412	1-786-050-21	SWITCH, KEY BOARD (MEGA BASE)			
**********					
*	1-861-304-11	CONT3 BOARD			
		**********			
		< CONNECTOR >			
* CN401	1-815-550-11	PIN, CONNECTOR (PWB) 2P			
		< RESISTOR >			
R407	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R408	1-216-833-11	METAL CHIP	10K	5%	1/10W
R415	1-216-821-11	METAL CHIP	1K	5%	1/10W
R417	1-216-821-11	METAL CHIP	1K	5%	1/10W
R418	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R419	1-216-821-11	METAL CHIP	1K	5%	1/10W
R422	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R431	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R432	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< SWITCH >			
S413	1-786-050-21	SWITCH, KEY BOARD (TUNE - ◀◀)			
S414	1-786-050-21	SWITCH, KEY BOARD (TUNE + ▶▶)			
S415	1-786-050-21	SWITCH, KEY BOARD (PRESET - I◀◀)			
S416	1-786-050-21	SWITCH, KEY BOARD (PRESET + ▶▶I)			

Ref. No.	Part No.	Description			Remark
S417	1-786-050-21	SWITCH, KEY BOARD (▶II)			
S418	1-786-050-21	SWITCH, KEY BOARD (■)			
**********					
	1-861-296-11	H/P BOARD			
		*********			
		< JACK >			
J321	1-815-325-11	JACK (🎧)			
**********					
*	A-4547-328-A	LCD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C401	1-115-156-11	CERAMIC CHIP	1uF		10V
		< DIODE >			
D406	8-719-059-97	DIODE L-34HD (OPR/BATT)			
		< IC >			
IC403	6-701-681-01	IC RPM7140-V4 (R)			
		< LIQUID CRYSTAL DISPLAY >			
LCD401	1-805-577-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< RESISTOR >			
R401	1-216-813-11	METAL CHIP	220	5%	1/10W
R402	1-216-817-11	METAL CHIP	470	5%	1/10W
R403	1-216-817-11	METAL CHIP	470	5%	1/10W
R404	1-216-817-11	METAL CHIP	470	5%	1/10W
R405	1-216-821-11	METAL CHIP	1K	5%	1/10W
R425	1-216-813-11	METAL CHIP	220	5%	1/10W
R440	1-216-841-11	METAL CHIP	47K	5%	1/10W
		< SWITCH >			
S401	1-786-050-21	SWITCH, KEY BOARD (POWER)			
S402	1-786-050-21	SWITCH, KEY BOARD (SLEEP)			
S403	1-786-050-21	SWITCH, KEY BOARD (DSPL/ENT/MEM)			
S404	1-786-050-21	SWITCH, KEY BOARD (MODE)			
**********					
*	1-861-300-11	LED-1 BOARD			
		**********			
**********					
*	1-861-301-11	LED-2 BOARD			
		**********			
		< CONNECTOR >			
CN403	1-815-443-11	PIN, CONNECTOR (PWB) 2P			
**********					
*	1-861-295-11	LINE IN BOARD (F10L)			
		**********			
		< CAPACITOR >			
C370	1-164-156-11	CERAMIC CHIP	0.1uF		25V (F10L)
C371	1-115-156-11	CERAMIC CHIP	1uF		10V (F10L)
		< IC >			
IC303	1-817-585-11	JACK, LIGHT FIDER CONNECTOR (OPTICAL DIGITAL OUT(CD)) (F10L)			
		< JACK >			
J301	1-566-891-11	JACK (LINE IN) (F10L)			
		< RESISTOR >			
R160	1-216-837-11	METAL CHIP	22K	5%	1/10W (F10L)
R260	1-216-837-11	METAL CHIP	22K	5%	1/10W (F10L)
**********					
*	A-4547-322-A	MAIN BOARD, COMPLETE (US, CND, E)			
*	A-4547-332-A	MAIN BOARD, COMPLETE (F10L)			
*	A-4547-338-A	MAIN BOARD, COMPLETE (SP, AR)			
	A-4547-671-A	MAIN BOARD, COMPLETE (KR, TW, AUS)			
		**********			
	3-252-829-01	SCREW (B3), (+) BV TAPPING			
		< CAPACITOR >			
C102	1-126-956-91	ELECT	0.1uF	20%	50V
C104	1-126-960-11	ELECT	1uF	20%	50V
C105	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C106	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C107	1-126-957-11	ELECT	0.22uF	20%	50V
C110	1-126-960-11	ELECT	1uF	20%	50V
C122	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C124	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C129	1-104-658-91	ELECT	100uF	20%	10V
C130	1-126-964-11	ELECT	10uF	20%	50V
C134	1-126-963-11	ELECT	4.7uF	20%	50V
C151	1-126-947-11	ELECT	47uF	20%	35V
C152	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C153	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C154	1-126-947-11	ELECT	47uF	20%	35V
C155	1-126-785-11	ELECT	47uF	20%	10V
C156	1-104-658-91	ELECT	100uF	20%	10V
C157	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C158	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C160	1-126-963-11	ELECT	4.7uF	20%	50V (F10L)
C161	1-126-963-11	ELECT	4.7uF	20%	50V (F10L)
C162	1-126-960-11	ELECT	1uF	20%	50V
C163	1-115-156-11	CERAMIC CHIP	1uF		10V
C165	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (F10L)
C202	1-126-956-91	ELECT	0.1uF	20%	50V
C204	1-126-960-11	ELECT	1uF	20%	50V
C205	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C206	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C207	1-126-957-11	ELECT	0.22uF	20%	50V
C210	1-126-960-11	ELECT	1uF	20%	50V
C222	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remark
C224	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C229	1-104-658-91	ELECT	100uF	20%	10V
C230	1-126-964-11	ELECT	10uF	20%	50V
C234	1-126-963-11	ELECT	4.7uF	20%	50V
C251	1-126-947-11	ELECT	47uF	20%	35V
C252	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C253	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C254	1-126-947-11	ELECT	47uF	20%	35V
C255	1-126-785-11	ELECT	47uF	20%	10V
C256	1-104-658-91	ELECT	100uF	20%	10V
C257	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C258	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C260	1-126-963-11	ELECT	4.7uF	20%	50V (F10L)
C261	1-126-963-11	ELECT	4.7uF	20%	50V (F10L)
C262	1-126-960-11	ELECT	1uF	20%	50V
C263	1-115-156-11	CERAMIC CHIP	1uF		10V
C265	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (F10L)
C302	1-126-947-11	ELECT	47uF	20%	35V
C320	1-126-768-11	ELECT	2200uF	20%	16V
C321	1-126-925-91	ELECT	470uF	20%	10V
C322	1-113-619-91	CERAMIC CHIP	0.47uF	10%	16V
C323	1-126-964-11	ELECT	10uF	20%	50V
C324	1-113-619-91	CERAMIC CHIP	0.47uF	10%	16V
C326	1-126-934-11	ELECT	220uF	20%	16V
C329	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C331	1-104-662-91	ELECT	22uF	20%	25V
C332	1-126-926-11	ELECT	1000uF	20%	10V
C333	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C350	1-104-662-91	ELECT	22uF	20%	25V
C351	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C352	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C360	1-104-658-91	ELECT	100uF	20%	10V (F10L)
C361	1-104-658-91	ELECT	100uF	20%	10V (F10L)
C801	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C802	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C803	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C804	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C805	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C806	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C807	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C808	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C809	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C810	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C811	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C812	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C813	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C814	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C815	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C816	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C817	1-104-658-91	ELECT	100uF	20%	10V
C818	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C819	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C820	1-115-156-11	CERAMIC CHIP	1uF		10V
C821	1-115-156-11	CERAMIC CHIP	1uF		10V
C822	1-126-923-91	ELECT	220uF	20%	10V
C823	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C824	1-115-156-11	CERAMIC CHIP	1uF		10V
C825	1-126-964-11	ELECT	10uF	20%	50V
C826	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C830	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C832	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C833	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C835	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C905	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C910	1-126-937-11	ELECT	4700uF	20%	16V
C951	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C952	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C953	1-126-935-11	ELECT	470uF	20%	16V
C957	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C959	1-126-923-91	ELECT	220uF	20%	10V
C960	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

< CONNECTOR >

*	CN302	1-815-552-11	PIN, CONNECTOR (PWB) 4P
	CN310	1-784-774-11	CONNECTOR, FFC 13P
*	CN312	1-815-551-11	PIN, CONNECTOR (PWB) 3P (F10L)
*	CN313	1-815-551-11	PIN, CONNECTOR (PWB) 3P (F10L)
*	CN314	1-815-551-11	PIN, CONNECTOR (PWB) 3P (F10L)
	CN320	1-784-765-11	CONNECTOR, FFC 4P
	CN802	1-784-773-11	CONNECTOR, FFC 12P
	CN803	1-784-775-11	CONNECTOR, FFC 14P
*	CN804	1-815-550-11	PIN, CONNECTOR (PWB) 2P
	CN806	1-784-775-11	CONNECTOR, FFC 14P
*	CN901	1-815-552-21	PIN, CONNECTOR (PWB) 4P

< DIODE >

D101	8-719-988-61	DIODE 1SS355TE-17
D201	8-719-988-61	DIODE 1SS355TE-17
D322	8-719-988-61	DIODE 1SS355TE-17
D323	8-719-988-61	DIODE 1SS355TE-17
D324	8-719-988-61	DIODE 1SS355TE-17
D801	8-719-083-93	DIODE KDS120-RTK
D802	8-719-941-86	DIODE DAN202U (AEP, UK, IT, EE, AUS)
D803	8-719-082-07	DIODE KDS121-RTK
D804	8-719-988-61	DIODE 1SS355TE-17
D910	8-719-083-93	DIODE KDS120-RTK
D920	8-719-082-07	DIODE KDS121-RTK
D921	8-719-069-54	DIODE UDZSTE-175.1B
D953	8-719-978-33	DIODE DTZ-TT11-6.8B
D957	8-719-083-58	DIODE UDZSTE-173.9B

< IC >

IC302	6-701-919-01	IC PT2257-S
IC304	8-759-426-51	IC BA5417
IC305	8-759-426-51	IC BA5417
IC801	6-804-289-01	IC uPD789477GC-A44-8BT
IC802	6-703-285-01	IC S-812C33AUA-C2NT2G
IC804	6-705-413-01	IC BD4826G-TR
IC805	6-703-769-01	IC BR24L01AF-WE2

MAIN

Ref. No.	Part No.	Description			Remark
		< SHORT >			
JC161	1-216-864-11	SHORT CHIP	0 (F10)		
JC261	1-216-864-11	SHORT CHIP	0 (F10)		
JC801	1-216-864-11	SHORT CHIP	0 (F10)		
JC802	1-216-864-11	SHORT CHIP	0		
JC803	1-216-864-11	SHORT CHIP	0		
JC804	1-216-864-11	SHORT CHIP	0		
JC805	1-216-864-11	SHORT CHIP	0		
JC806	1-216-864-11	SHORT CHIP	0		
JC807	1-216-864-11	SHORT CHIP	0		
JC808	1-216-864-11	SHORT CHIP	0		
JC809	1-216-864-11	SHORT CHIP	0 (SP, AUS)		
JC810	1-216-864-11	SHORT CHIP	0 (SP, AUS)		
JC811	1-216-864-11	SHORT CHIP	0		
JC812	1-216-864-11	SHORT CHIP	0		
JC814	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L801	1-414-137-31	INDUCTOR	0.22uH		
L802	1-410-521-11	INDUCTOR	100uH		
		< TRANSISTOR >			
Q101	8-729-905-40	TRANSISTOR	2SC4081T106		
Q122	8-729-905-40	TRANSISTOR	2SC4081T106		
Q124	8-729-047-12	TRANSISTOR	DTC314TU-T106		
Q125	8-729-905-40	TRANSISTOR	2SC4081T106		
Q160	8-729-905-40	TRANSISTOR	2SC4081T106 (F10L)		
Q161	8-729-905-40	TRANSISTOR	2SC4081T106 (F10L)		
Q222	8-729-905-40	TRANSISTOR	2SC4081T106		
Q224	8-729-047-12	TRANSISTOR	DTC314TU-T106		
Q225	8-729-905-40	TRANSISTOR	2SC4081T106		
Q260	8-729-905-40	TRANSISTOR	2SC4081T106 (F10L)		
Q261	8-729-905-40	TRANSISTOR	2SC4081T106 (F10L)		
Q801	8-729-029-16	TRANSISTOR	DTC144VUA-T106		
Q802	8-729-028-90	TRANSISTOR	DTA143ZUA-T106 (F10L)		
Q803	8-729-029-13	TRANSISTOR	DTC143ZUA-T106 (F10L)		
Q804	8-729-028-77	TRANSISTOR	DTA115EUA-T106		
Q805	8-729-028-92	TRANSISTOR	DTA144TUA-T106		
Q806	8-729-029-13	TRANSISTOR	DTC143ZUA-T106		
Q807	8-729-028-77	TRANSISTOR	DTA115EUA-T106		
Q808	8-729-905-40	TRANSISTOR	2SC4081T106		
Q809	8-729-029-13	TRANSISTOR	DTC143ZUA-T106		
Q810	8-729-028-90	TRANSISTOR	DTA143ZUA-T106		
Q813	8-729-029-13	TRANSISTOR	DTC143ZUA-T106		
Q819	8-729-029-00	TRANSISTOR	DTC115EUA-T106		
Q951	8-729-029-13	TRANSISTOR	DTC143ZUA-T106		
Q952	8-729-040-76	TRANSISTOR	KTA1273-Y-AT		
Q953	8-729-905-40	TRANSISTOR	2SC4081T106		
Q955	8-729-018-99	TRANSISTOR	2SD2394-F		
Q957	8-729-036-86	TRANSISTOR	KTC3203Y-AT		
Q958	8-729-028-90	TRANSISTOR	DTA143ZUA-T106		
Q959	8-729-028-99	TRANSISTOR	DTC114YUA-T106		
		< RESISTOR >			
R103	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R104	1-216-813-11	METAL CHIP	220	5%	1/10W
R105	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R106	1-216-817-11	METAL CHIP	470	5%	1/10W
R107	1-216-809-11	METAL CHIP	100	5%	1/10W
R108	1-216-817-11	METAL CHIP	470	5%	1/10W
R109	1-216-833-11	METAL CHIP	10K	5%	1/10W
R110	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R111	1-216-809-11	METAL CHIP	100	5%	1/10W (AUS)
R111	1-216-817-11	METAL CHIP	470	5%	1/10W (EXCEPT AUS)
R112	1-216-833-11	METAL CHIP	10K	5%	1/10W
R113	1-216-821-11	METAL CHIP	1K	5%	1/10W
R114	1-216-849-11	METAL CHIP	220K	5%	1/10W
R115	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R116	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT AUS)
R141	1-216-821-11	METAL CHIP	1K	5%	1/10W
R142	1-216-813-11	METAL CHIP	220	5%	1/10W
R143	1-216-845-11	METAL CHIP	100K	5%	1/10W
R145	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R146	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R147	1-216-821-11	METAL CHIP	1K	5%	1/10W
R148	1-216-817-11	METAL CHIP	470	5%	1/10W
R149	1-216-813-11	METAL CHIP	220	5%	1/10W
R150	1-216-817-11	METAL CHIP	470	5%	1/10W
R158	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (F10L)
R161	1-216-841-11	METAL CHIP	47K	5%	1/10W (F10L)
R162	1-216-849-11	METAL CHIP	220K	5%	1/10W (F10L)
R163	1-216-821-11	METAL CHIP	1K	5%	1/10W (F10L)
R164	1-216-845-11	METAL CHIP	100K	5%	1/10W (F10L)
R165	1-216-841-11	METAL CHIP	47K	5%	1/10W (F10L)
R166	1-216-821-11	METAL CHIP	1K	5%	1/10W
R204	1-216-813-11	METAL CHIP	220	5%	1/10W
R205	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R206	1-216-817-11	METAL CHIP	470	5%	1/10W
R207	1-216-809-11	METAL CHIP	100	5%	1/10W
R208	1-216-817-11	METAL CHIP	470	5%	1/10W
R209	1-216-833-11	METAL CHIP	10K	5%	1/10W
R210	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R211	1-216-809-11	METAL CHIP	100	5%	1/10W (AUS)
R211	1-216-817-11	METAL CHIP	470	5%	1/10W (EXCEPT AUS)
R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R213	1-216-821-11	METAL CHIP	1K	5%	1/10W
R214	1-216-849-11	METAL CHIP	220K	5%	1/10W
R215	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R216	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT AUS)
R241	1-216-821-11	METAL CHIP	1K	5%	1/10W
R242	1-216-813-11	METAL CHIP	220	5%	1/10W
R243	1-216-845-11	METAL CHIP	100K	5%	1/10W
R245	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R246	1-216-789-11	METAL CHIP	2.2	5%	1/10W

Ref. No.	Part No.	Description			Remark
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R248	1-216-817-11	METAL CHIP	470	5%	1/10W
R249	1-216-813-11	METAL CHIP	220	5%	1/10W
R250	1-216-817-11	METAL CHIP	470	5%	1/10W
R258	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (F10L)
R261	1-216-841-11	METAL CHIP	47K	5%	1/10W (F10L)
R262	1-216-849-11	METAL CHIP	220K	5%	1/10W (F10L)
R263	1-216-821-11	METAL CHIP	1K	5%	1/10W (F10L)
R264	1-216-845-11	METAL CHIP	100K	5%	1/10W (F10L)
R265	1-216-841-11	METAL CHIP	47K	5%	1/10W (F10L)
R266	1-216-821-11	METAL CHIP	1K	5%	1/10W
R302	1-216-845-11	METAL CHIP	100K	5%	1/10W
R303	1-216-817-11	METAL CHIP	470	5%	1/10W
R320	1-216-833-11	METAL CHIP	10K	5%	1/10W
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R323	1-216-857-11	METAL CHIP	1M	5%	1/10W
R325	1-216-821-11	METAL CHIP	1K	5%	1/10W
R326	1-216-821-11	METAL CHIP	1K	5%	1/10W
R327	1-216-821-11	METAL CHIP	1K	5%	1/10W
R330	1-216-809-11	METAL CHIP	100	5%	1/10W
R333	1-216-833-11	METAL CHIP	10K	5%	1/10W
R350	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R351	1-216-833-11	METAL CHIP	10K	5%	1/10W
R352	1-216-833-11	METAL CHIP	10K	5%	1/10W
R353	1-216-833-11	METAL CHIP	10K	5%	1/10W
R801	1-216-833-11	METAL CHIP	10K	5%	1/10W
R802	1-216-841-11	METAL CHIP	47K	5%	1/10W
R803	1-216-821-11	METAL CHIP	1K	5%	1/10W
R804	1-216-841-11	METAL CHIP	47K	5%	1/10W
R805	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R806	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R807	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R808	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R809	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R810	1-216-821-11	METAL CHIP	1K	5%	1/10W
R811	1-216-821-11	METAL CHIP	1K	5%	1/10W
R812	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R813	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R814	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R815	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R816	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R817	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R818	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R819	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R820	1-216-813-11	METAL CHIP	220	5%	1/10W (AUS)
R820	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (SP)
R820	1-216-837-11	METAL CHIP	22K	5%	1/10W (F10L)
R820	1-216-864-11	SHORT CHIP	0 (US, CND, E)		
R821	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R822	1-216-817-11	METAL CHIP	470	5%	1/10W (SP, AUS)
R822	1-216-833-11	METAL CHIP	10K	5%	1/10W (F10L)
R822	1-216-864-11	SHORT CHIP	0 (US, CND, E)		
R823	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R824	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R825	1-216-841-11	METAL CHIP	47K	5%	1/10W
R826	1-216-821-11	METAL CHIP	1K	5%	1/10W
R827	1-216-845-11	METAL CHIP	100K	5%	1/10W
R828	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R829	1-216-853-11	METAL CHIP	470K	5%	1/10W
R830	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R831	1-216-837-11	METAL CHIP	22K	5%	1/10W
R832	1-216-817-11	METAL CHIP	470	5%	1/10W
R833	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R834	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R835	1-216-833-11	METAL CHIP	10K	5%	1/10W
R836	1-216-833-11	METAL CHIP	10K	5%	1/10W
R837	1-216-833-11	METAL CHIP	10K	5%	1/10W
R838	1-216-841-11	METAL CHIP	47K	5%	1/10W
R839	1-216-845-11	METAL CHIP	100K	5%	1/10W
R840	1-216-845-11	METAL CHIP	100K	5%	1/10W
R841	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R842	1-216-821-11	METAL CHIP	1K	5%	1/10W
R843	1-216-821-11	METAL CHIP	1K	5%	1/10W
R844	1-216-833-11	METAL CHIP	10K	5%	1/10W
R845	1-216-841-11	METAL CHIP	47K	5%	1/10W
R846	1-216-841-11	METAL CHIP	47K	5%	1/10W
R847	1-216-841-11	METAL CHIP	47K	5%	1/10W
R848	1-216-841-11	METAL CHIP	47K	5%	1/10W
R849	1-216-841-11	METAL CHIP	47K	5%	1/10W
R850	1-216-821-11	METAL CHIP	1K	5%	1/10W
R854	1-216-813-11	METAL CHIP	220	5%	1/10W
R855	1-216-833-11	METAL CHIP	10K	5%	1/10W
R856	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R857	1-216-833-11	METAL CHIP	10K	5%	1/10W
R858	1-216-837-11	METAL CHIP	22K	5%	1/10W
R859	1-216-821-11	METAL CHIP	1K	5%	1/10W
R860	1-216-841-11	METAL CHIP	47K	5%	1/10W
R861	1-216-821-11	METAL CHIP	1K	5%	1/10W (F10L)
R862	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R863	1-216-821-11	METAL CHIP	1K	5%	1/10W
R864	1-216-821-11	METAL CHIP	1K	5%	1/10W
R865	1-216-849-11	METAL CHIP	220K	5%	1/10W
R866	1-216-845-11	METAL CHIP	100K	5%	1/10W
R867	1-216-845-11	METAL CHIP	100K	5%	1/10W
R868	1-216-845-11	METAL CHIP	100K	5%	1/10W
R869	1-216-813-11	METAL CHIP	220	5%	1/10W
R870	1-216-833-11	METAL CHIP	10K	5%	1/10W
R871	1-216-833-11	METAL CHIP	10K	5%	1/10W
R872	1-216-833-11	METAL CHIP	10K	5%	1/10W
R873	1-216-833-11	METAL CHIP	10K	5%	1/10W
R874	1-216-833-11	METAL CHIP	10K	5%	1/10W
R875	1-216-833-11	METAL CHIP	10K	5%	1/10W
R876	1-216-833-11	METAL CHIP	10K	5%	1/10W
R877	1-216-833-11	METAL CHIP	10K	5%	1/10W
R878	1-216-833-11	METAL CHIP	10K	5%	1/10W

MAIN **POWER** **RELAY1** **RELAY2** **TC**

Ref. No.	Part No.	Description			Remark
R879	1-216-833-11	METAL CHIP	10K	5%	1/10W
R880	1-216-833-11	METAL CHIP	10K	5%	1/10W
R881	1-216-833-11	METAL CHIP	10K	5%	1/10W
R882	1-216-833-11	METAL CHIP	10K	5%	1/10W
R883	1-216-833-11	METAL CHIP	10K	5%	1/10W
R884	1-216-833-11	METAL CHIP	10K	5%	1/10W
R885	1-216-833-11	METAL CHIP	10K	5%	1/10W
R886	1-216-833-11	METAL CHIP	10K	5%	1/10W
R887	1-216-833-11	METAL CHIP	10K	5%	1/10W
R888	1-216-833-11	METAL CHIP	10K	5%	1/10W
R889	1-216-833-11	METAL CHIP	10K	5%	1/10W
R890	1-216-833-11	METAL CHIP	10K	5%	1/10W
R891	1-216-817-11	METAL CHIP	470	5%	1/10W
R892	1-216-809-11	METAL CHIP	100	5%	1/10W
R893	1-216-813-11	METAL CHIP	220	5%	1/10W
R894	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT AUS)
R895	1-216-813-11	METAL CHIP	220	5%	1/10W
R896	1-216-813-11	METAL CHIP	220	5%	1/10W
R900	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R920	1-216-813-11	METAL CHIP	220	5%	1/10W (AUS)
R920	1-216-817-11	METAL CHIP	470	5%	1/10W (EXCEPT AUS)
R922	1-216-813-11	METAL CHIP	220	5%	1/10W
R923	1-216-813-11	METAL CHIP	220	5%	1/10W
R932	1-216-821-11	METAL CHIP	1K	5%	1/10W
R933	1-216-821-11	METAL CHIP	1K	5%	1/10W
R934	1-216-817-11	METAL CHIP	470	5%	1/10W
R935	1-216-817-11	METAL CHIP	470	5%	1/10W
R951	1-216-841-11	METAL CHIP	47K	5%	1/10W
R952	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R953	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R954	1-216-821-11	METAL CHIP	1K	5%	1/10W
R955	1-216-821-11	METAL CHIP	1K	5%	1/10W
R956	1-216-833-11	METAL CHIP	10K	5%	1/10W
R957	1-216-833-11	METAL CHIP	10K	5%	1/10W
R958	1-216-813-11	METAL CHIP	220	5%	1/10W
R959	1-216-809-11	METAL CHIP	100	5%	1/10W
R960	1-216-821-11	METAL CHIP	1K	5%	1/10W
R961	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R962	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R963	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R964	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< VIBRATOR >			
X801	1-795-915-11	VIBRATOR, CRYSTAL (32.768)			
X802	1-795-054-21	VIBRATOR, CERAMIC (4.19MHz)			
**********					
		POWER BOARD			
		**********			
		< CAPACITOR >			
C901	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C902	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C903	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C904	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C906	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D901	8-719-046-07	DIODE 2A02M			
D902	8-719-046-07	DIODE 2A02M			
D903	8-719-046-07	DIODE 2A02M			
D904	8-719-046-07	DIODE 2A02M			
D905	8-719-988-61	DIODE 1SS355TE-17			
D906	8-719-988-61	DIODE 1SS355TE-17			
		< FUSE >			
⚠F902	1-533-452-12	FUSE, GLASS TUBE (DIA. 5)(T4AL/125V) (CND)			
⚠F902	1-533-471-12	FUSE, GLASS TUBE (DIA. 5)(T4AL/250V) (AEP, UK, IT, EE, KR, SP, TW, AUS)			
		< JACK >			
⚠J901	1-526-818-11	INLET, AC (~ AC IN) (E, TW)			
⚠J901	1-526-838-11	INLET, AC 2P (~ AC IN) (AEP, UK, IT, EE, KR, SP, AUS)			
⚠J901	1-540-009-11	INLET, AC (~ AC IN) (US, CND, AR)			
		< TRANSFORMER >			
⚠T901	1-443-259-11	TRANSFORMER, POWER (US, CND, E, TW, AR)			
⚠T901	1-443-260-11	TRANSFORMER, POWER (AEP, UK, IT, EE, KR, SP, AUS)			
**********					
*	1-861-305-11	RELAY1 BOARD			
		**********			
		< CAPACITOR >			
C131	1-126-947-11	ELECT	47uF	20%	35V
C231	1-126-947-11	ELECT	47uF	20%	35V
		< CONNECTOR >			
* CN304	1-815-448-11	PIN, CONNECTOR (PWB) 7P			
CN306	1-815-446-11	PIN, CONNECTOR (PWB) 5P			
CN323	1-815-445-11	PIN, CONNECTOR (PWB) 4P			
		< RESISTOR >			
R132	1-216-809-11	METAL CHIP	100	5%	1/10W
R232	1-216-809-11	METAL CHIP	100	5%	1/10W
**********					
*	1-861-306-11	RELAY2 BOARD			
		**********			
		< CONNECTOR >			
CN406	1-784-765-11	CONNECTOR, FFC 4P			
CN407	1-784-765-11	CONNECTOR, FFC 4P			
**********					
*	A-3683-864-A	TC BOARD, COMPLETE (F10L)			
*	A-4547-315-A	TC BOARD, COMPLETE (F10)			
		**********			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C102	1-104-658-91	ELECT	100uF	20%	10V
C103	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C104	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C105	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C107	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-104-658-91	ELECT	100uF	20%	10V
C203	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C204	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C205	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C207	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C301	1-104-658-91	ELECT	100uF	20%	10V
C302	1-104-658-91	ELECT	100uF	20%	10V
C303	1-104-658-91	ELECT	100uF	20%	10V
C304	1-126-947-11	ELECT	47uF	20%	35V
C305	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C307	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C308	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (F10L)
C310	1-164-230-11	CERAMIC CHIP	220PF	5%	50V (F10L)
		< CONNECTOR >			
CN303	1-568-830-11	CONNECTOR, FFC 11P (F10)			
CN303	1-784-774-11	CONNECTOR, FFC 13P (F10L)			
		< IC >			
IC301	8-759-264-71	IC TA2068N			
		< SHORT >			
JC301	1-216-864-11	SHORT CHIP	0		
JC302	1-216-864-11	SHORT CHIP	0		
JC303	1-216-864-11	SHORT CHIP	0		
JC304	1-216-864-11	SHORT CHIP	0		
JC305	1-216-864-11	SHORT CHIP	0		
JC306	1-216-295-91	SHORT CHIP	0		
JC307	1-216-864-11	SHORT CHIP	0		
JC308	1-216-295-91	SHORT CHIP	0		
JC309	1-216-864-11	SHORT CHIP	0 (F10L)		
		< TRANSISTOR >			
Q301	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
Q302	8-729-907-00	TRANSISTOR	DTC114EU (F10L)		
Q303	8-729-907-00	TRANSISTOR	DTC114EU (F10L)		
		< RESISTOR >			
R101	1-216-835-11	METAL CHIP	15K	5%	1/10W
R102	1-216-807-11	METAL CHIP	68	5%	1/10W
R103	1-216-843-11	METAL CHIP	68K	5%	1/10W
R104	1-216-835-11	METAL CHIP	15K	5%	1/10W
R105	1-216-835-11	METAL CHIP	15K	5%	1/10W
R106	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R110	1-216-809-11	METAL CHIP	100	5%	1/10W
R111	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R112	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R201	1-216-835-11	METAL CHIP	15K	5%	1/10W
R202	1-216-807-11	METAL CHIP	68	5%	1/10W
R203	1-216-843-11	METAL CHIP	68K	5%	1/10W
R204	1-216-835-11	METAL CHIP	15K	5%	1/10W
R205	1-216-835-11	METAL CHIP	15K	5%	1/10W
R206	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R210	1-216-025-11	RES-CHIP	100	5%	1/10W
R211	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R212	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R301	1-216-857-11	METAL CHIP	1M	5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R303	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R304	1-216-821-11	METAL CHIP	1K	5%	1/10W
R305	1-216-817-11	METAL CHIP	470	5%	1/10W
R306	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R307	1-216-797-11	METAL CHIP	10	5%	1/10W
R308	1-216-837-11	METAL CHIP	22K	5%	1/10W
R309	1-216-805-11	METAL CHIP	47	5%	1/10W
R310	1-216-857-11	METAL CHIP	1M	5%	1/10W (F10L)
R311	1-216-857-11	METAL CHIP	1M	5%	1/10W (F10L)
R314	1-216-817-11	METAL CHIP	470	5%	1/10W
R315	1-216-817-11	METAL CHIP	470	5%	1/10W
		< SWITCH >			
S301	1-786-126-11	SWITCH, SLIDE (REC/PB)			
		< TRANSFORMER >			
T301	1-416-041-11	TRANSFORMER, BIAS OSCILLATION			
**********					
*	A-4547-323-A	TUNER BOARD, COMPLETE (US, CND, E)			
*	A-4547-333-A	TUNER BOARD, COMPLETE (F10L)			
*	A-4547-406-A	TUNER BOARD, COMPLETE			(KR, SP, TW, AR, AUS)
		**********			
	3-249-551-01	HOLDER (PWB TU)			
		< CAPACITOR >			
C1	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (F10L)
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (F10L)
C4	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (F10L)
C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (F10L)
C7	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C8	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C10	1-126-960-11	ELECT	1uF	20%	50V
C11	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C12	1-126-963-11	ELECT	4.7uF	20%	50V
C14	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP, UK, IT, EE, SP, AUS)

TUNER

Ref. No.	Part No.	Description			Remark
C14	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (US, CND, E)
C15	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP, UK, IT, EE, SP, AUS)
C15	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (US, CND, E)
C18	1-126-923-91	ELECT	220uF	20%	10V
C20	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C21	1-126-960-11	ELECT	1uF	20%	50V
C22	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C23	1-126-960-11	ELECT	1uF	20%	50V
C24	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C25	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (F10L)
C26	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (F10)
C27	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (F10)
C29	1-104-658-91	ELECT	100uF	20%	10V
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C31	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C32	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C33	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C35	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C37	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C39	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C40	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (F10L)
C41	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C42	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C43	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (F10)
C43	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (F10L)
C44	1-164-230-11	CERAMIC CHIP	220PF	5%	50V (F10L)
C45	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (F10L)
C46	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (F10L)
C47	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (F10)
C48	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (F10L)
C49	1-161-051-00	CERAMIC	0.01uF	10%	25V (F10)
C49	1-161-772-11	CERAMIC	0.1uF	10%	25V (F10L)
C51	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C52	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C53	1-137-190-91	FILM	0.22uF	5%	50V (F10)
C53	1-137-194-81	FILM	0.47uF	5%	50V (F10L)
C54	1-126-923-91	ELECT	220uF	20%	10V
C55	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C56	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C57	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C58	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (F10L)

Ref. No.	Part No.	Description			Remark
C59	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (F10)
C59	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (F10L)
C60	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C61	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C62	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C63	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C64	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (F10L)
C65	1-126-963-11	ELECT	4.7uF	20%	50V (F10)
C66	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C68	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C70	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V (F10L)
C71	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (F10L)
C72	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (F10L)
C73	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (F10L)
C77	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (AEP, UK, IT, EE, SP, AUS)
C78	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (AEP, UK, IT, EE, SP, AUS)
C80	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C93	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (F10L)
C95	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< FILTER >			
CF2	1-795-426-11	FILTER, CERAMIC (F10L)			
CF2	1-760-235-81	FILTER, CERAMIC (F10)			
CF4	1-781-962-21	FILTER, CERAMIC			
		< CONNECTOR >			
* CNP1	1-785-663-11	PIN, CONNECTOR (PC BOARD) 11P			
		< TRIMMER >			
CT1	1-141-442-91	CAP, CERAMIC TRIMMER	20PF		
CT3	1-141-304-21	CAP, CERAMIC TRIMMER	10PF		
CT5	1-141-459-11	CAP, TRIMMER (SEAL TYPE)	45PF (F10L)		
		< DIODE >			
D1	8-719-078-48	DIODE KV1471ETR1-3			
D2	8-719-078-48	DIODE KV1471ETR1-3			
D3	8-719-050-69	DIODE KV1520N			
D10	8-719-988-61	DIODE 1SS355TE-17			
D11	8-719-988-61	DIODE 1SS355TE-17			
		< IC >			
IC1	6-700-512-01	IC TA2149BN			
IC2	8-759-483-40	IC LC72137M-TLM-E			
		< SHORT >			
JC1	1-216-864-11	SHORT CHIP	0		
JC2	1-216-864-11	SHORT CHIP	0		
JC3	1-216-864-11	SHORT CHIP	0		
JC4	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
JC5	1-216-864-11	SHORT CHIP	0		
JC6	1-216-864-11	SHORT CHIP	0		
JC11	1-216-864-11	SHORT CHIP	0 (F10)		
JC12	1-216-864-11	SHORT CHIP	0 (F10)		
JC13	1-216-864-11	SHORT CHIP	0 (F10)		
JC22	1-216-864-11	SHORT CHIP	0 (F10L)		
JC23	1-216-864-11	SHORT CHIP	0 (F10L)		
JC24	1-216-864-11	SHORT CHIP	0 (AEP, UK, IT, EE, SP, AUS)		
JC33	1-216-864-11	SHORT CHIP	0		
JC34	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L1	1-409-775-11	COIL, AIR-CORE			
L2	1-416-509-11	COIL, AIR-CORE			
L3	1-754-116-12	ANTENNA, FERRITE-ROD (LW MW) (F10L)			
L3	1-754-117-12	ANTENNA, FERRITE-ROD (MW) (F10)			
L4	1-411-199-31	COIL, MW/LW OSC (F10L)			
L4	1-411-234-21	COIL, AM OSC (F10)			
L11	1-414-142-11	INDUCTOR	1uH (US, CND, E)		
L21	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q12	8-729-028-99	TRANSISTOR	DTC114YUA-T106 (F10L)		
Q14	8-729-905-35	TRANSISTOR	2SC4081-R (F10L)		
Q41	8-729-920-31	TRANSISTOR	DTC343TK (F10L)		
Q42	8-729-054-77	TRANSISTOR	2SC4098-T106-PQ (F10L)		
Q43	8-729-920-38	TRANSISTOR	2SC2059K-N (F10L)		
Q44	8-729-054-77	TRANSISTOR	2SC4098-T106-PQ (F10L)		
Q61	8-729-106-07	TRANSISTOR	2SK514-H (F10L)		
		< RESISTOR >			
R1	1-216-815-11	METAL CHIP	330	5%	1/10W (F10)
R1	1-216-817-11	METAL CHIP	470	5%	1/10W (F10L)
R2	1-216-817-11	METAL CHIP	470	5%	1/10W
R3	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7	1-216-853-11	METAL CHIP	470K	5%	1/10W (F10L)
R9	1-216-845-11	METAL CHIP	100K	5%	1/10W (F10L)
R10	1-216-805-11	METAL CHIP	47	5%	1/10W
R11	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R12	1-216-841-11	METAL CHIP	47K	5%	1/10W (F10L)
R13	1-216-821-11	METAL CHIP	1K	5%	1/10W
R16	1-216-833-11	METAL CHIP	10K	5%	1/10W (F10L)
R17	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (F10L)
R18	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (F10L)
R19	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (F10L)
R22	1-216-833-11	METAL CHIP	10K	5%	1/10W (F10L)
R24	1-216-813-11	METAL CHIP	220	5%	1/10W
R30	1-216-835-11	METAL CHIP	15K	5%	1/10W
R31	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R32	1-216-845-11	METAL CHIP	100K	5%	1/10W
R40	1-216-849-11	METAL CHIP	220K	5%	1/10W (F10)
R40	1-216-853-11	METAL CHIP	470K	5%	1/10W (F10L)
R41	1-216-833-11	METAL CHIP	10K	5%	1/10W
R42	1-216-845-11	METAL CHIP	100K	5%	1/10W (F10L)
R43	1-216-833-11	METAL CHIP	10K	5%	1/10W (F10L)
R50	1-216-821-11	METAL CHIP	1K	5%	1/10W
R51	1-216-833-11	METAL CHIP	10K	5%	1/10W
R52	1-216-809-11	METAL CHIP	100	5%	1/10W (F10L)
R52	1-216-864-11	SHORT CHIP	0 (F10)		
R53	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (F10L)
R53	1-216-835-11	METAL CHIP	15K	5%	1/10W (F10)
R54	1-216-817-11	METAL CHIP	470	5%	1/10W
R56	1-216-815-11	METAL CHIP	330	5%	1/10W
R58	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R59	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R60	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R61	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R63	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (F10L)
R63	1-216-833-11	METAL CHIP	10K	5%	1/10W (F10)
R64	1-216-821-11	METAL CHIP	1K	5%	1/10W (F10L)
R65	1-216-833-11	METAL CHIP	10K	5%	1/10W (F10)
R66	1-216-805-11	METAL CHIP	47	5%	1/10W (F10L)
R91	1-216-813-11	METAL CHIP	220	5%	1/10W
R92	1-216-813-11	METAL CHIP	220	5%	1/10W
R93	1-216-821-11	METAL CHIP	1K	5%	1/10W (F10L)
R94	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< TRANSFORMER >			
T1	1-433-741-11	TRANSFORMER, IF			
T2	1-419-465-11	COIL (DET)			
		< VIBRATOR >			
X1	1-795-449-11	VIBRATOR, CRYSTAL (75kHz)			

****

MISCELLANEOUS
****

213	1-452-899-11	MAGNET
ANT1	1-754-321-11	ANTENNA, TELESCOPIC (EXCEPT E, AUS)
ANT1	1-754-321-11	ANTENNA, TELESCOPIC (E, AUS)
M801	3-244-082-01	PULLEY (MOTOR)
⚠	8-820-161-02	OPTICAL PICK-UP (KSS-213R/C2RP)
⚠	8-848-483-12	OPTICAL PICK-UP (KSS-213C/C2RP1)

****

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES	
		**********	
	A-1055-231-A	REMOTE CONTROL UNIT (RMT-CF10A)(F10)	
	A-1055-233-A	REMOTE CONTROL UNIT (RMT-CF10AD)(F10L)	
⚠	1-690-952-13	CORD, POWER (CND)	
⚠	1-696-819-11	CORD, POWER (AUS)	
⚠	1-769-412-22	CORD, POWER (AEP, UK, IT, EE, KR, SP, AR)	
⚠	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
⚠	1-782-126-11	CORD, POWER (US)	
⚠	1-828-834-11	POWER-SUPPLY CORD (TW)	
	3-264-046-12	MANUAL INSTRUCTION (ENGLISH) (AEP, UK, SP, AR, AUS)	
	3-264-046-21	MANUAL INSTRUCTION (SPANISH)(AEP, SP, AR)	
	3-264-046-31	MANUAL INSTRUCTION (FRENCH)(AEP)	
	3-264-046-41	MANUAL INSTRUCTION (GERMAN)(AEP)	
	3-264-046-51	MANUAL INSTRUCTION (DUTCH)(AEP)	
	3-264-046-61	MANUAL INSTRUCTION (PORTUGUESE)(AEP)	
	3-264-046-71	MANUAL INSTRUCTION (ITALIAN)(IT)	
	3-264-046-81	MANUAL INSTRUCTION (SWEDISH)(EE)	
	3-264-046-91	MANUAL INSTRUCTION (FINNISH)(EE)	
	3-264-047-11	INSTRUCTION MANUAL (POLISH)(EE)	
	3-264-047-21	INSTRUCTION MANUAL (CZECH)(EE)	
	3-264-047-31	INSTRUCTION MANUAL (HUNGARIAN)(EE)	
	3-264-047-41	INSTRUCTION MANUAL (SLOVAK)(EE)	
	3-264-047-51	INSTRUCTION MANUAL (RUSSIAN)(EE)	
	3-264-047-61	INSTRUCTION MANUAL (ENGLISH) (US, CND, E, TW)	
	3-264-047-71	INSTRUCTION MANUAL (SPANISH)(E) INSTRUCTION MANUAL (FRENCH)(CND)	
	3-264-047-91	MANUAL, INSTRUCTION (TRADITIONAL CHINESE)(TW)	
	3-265-636-11	MANUAL, INSTRUCTION (KOREAN)(KR)	

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CFD-F10/F10L

SONY

SERVICE MANUAL

Ver. 1.3 2004.11

US Model
Canadian Model
E Model
Australian Model
CFD-F10
AEP Model
UK Model
CFD-F10L

SUPPLEMENT-1

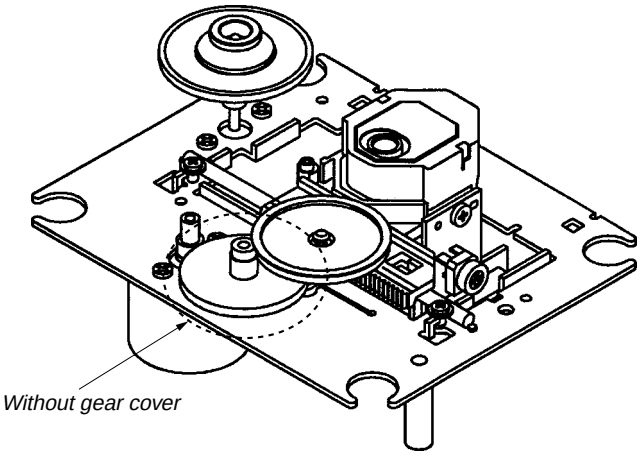
File this supplement with the service manual.

Subject: Change of Optical Pick-up Block (KSM-213RDP→KSM-213CDP)

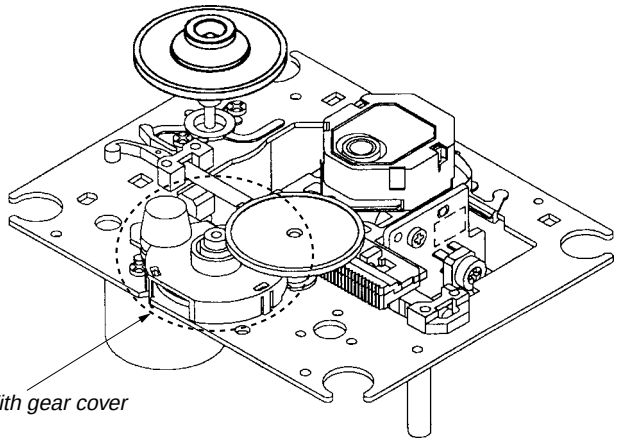
Optical pick-up block is changed from KSM-213RDP to KSM-213CDP in the midway of production.
In performing the replacing of Optical pick-up block, be sure to check which Optical pick-up block is used, according to the following identification.
SUPPLEMENT-1 has indicated only the information of KSM-213CDP.

IDENTIFICATION

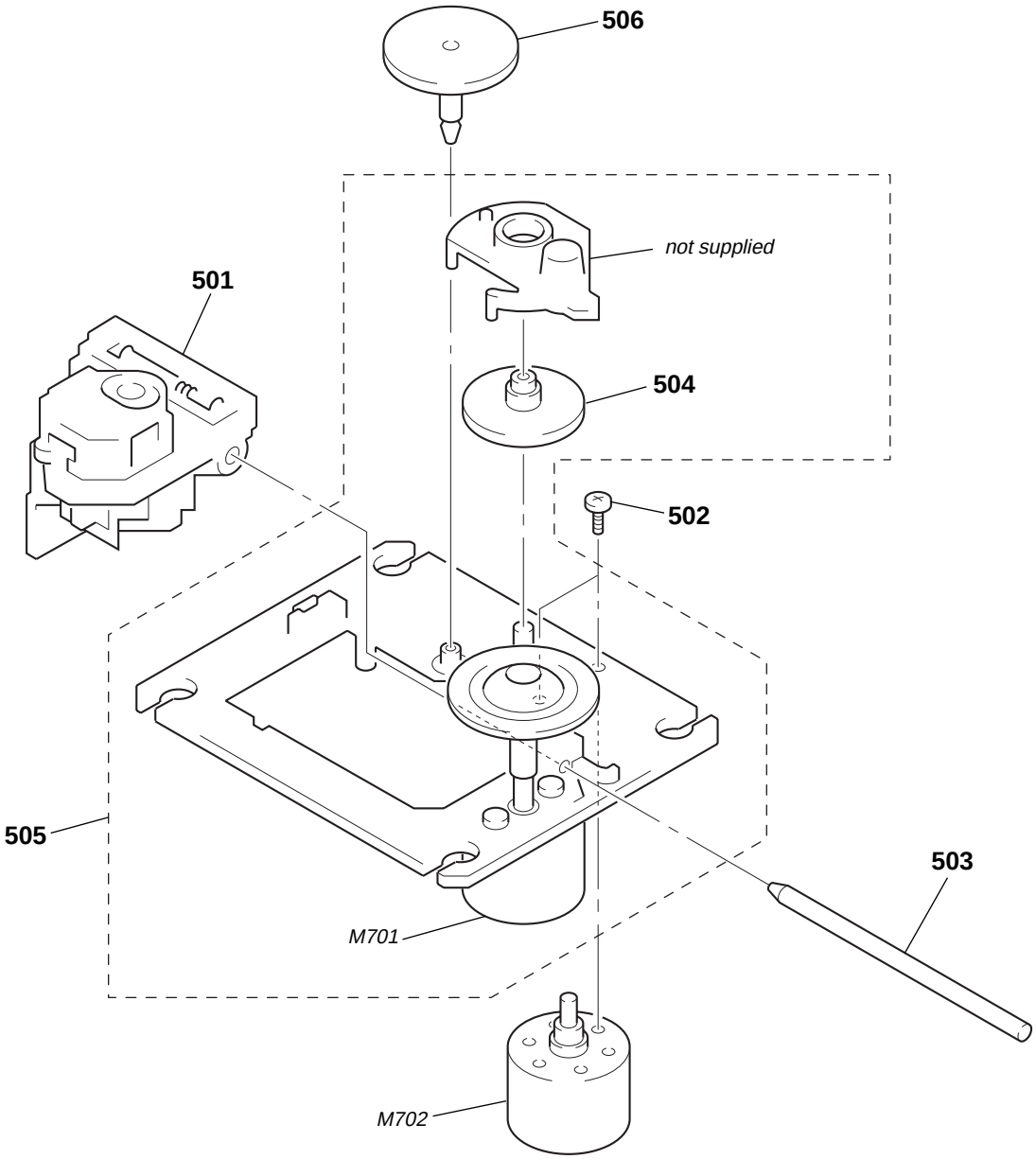
KSM-213RDP



KSM-213CDP



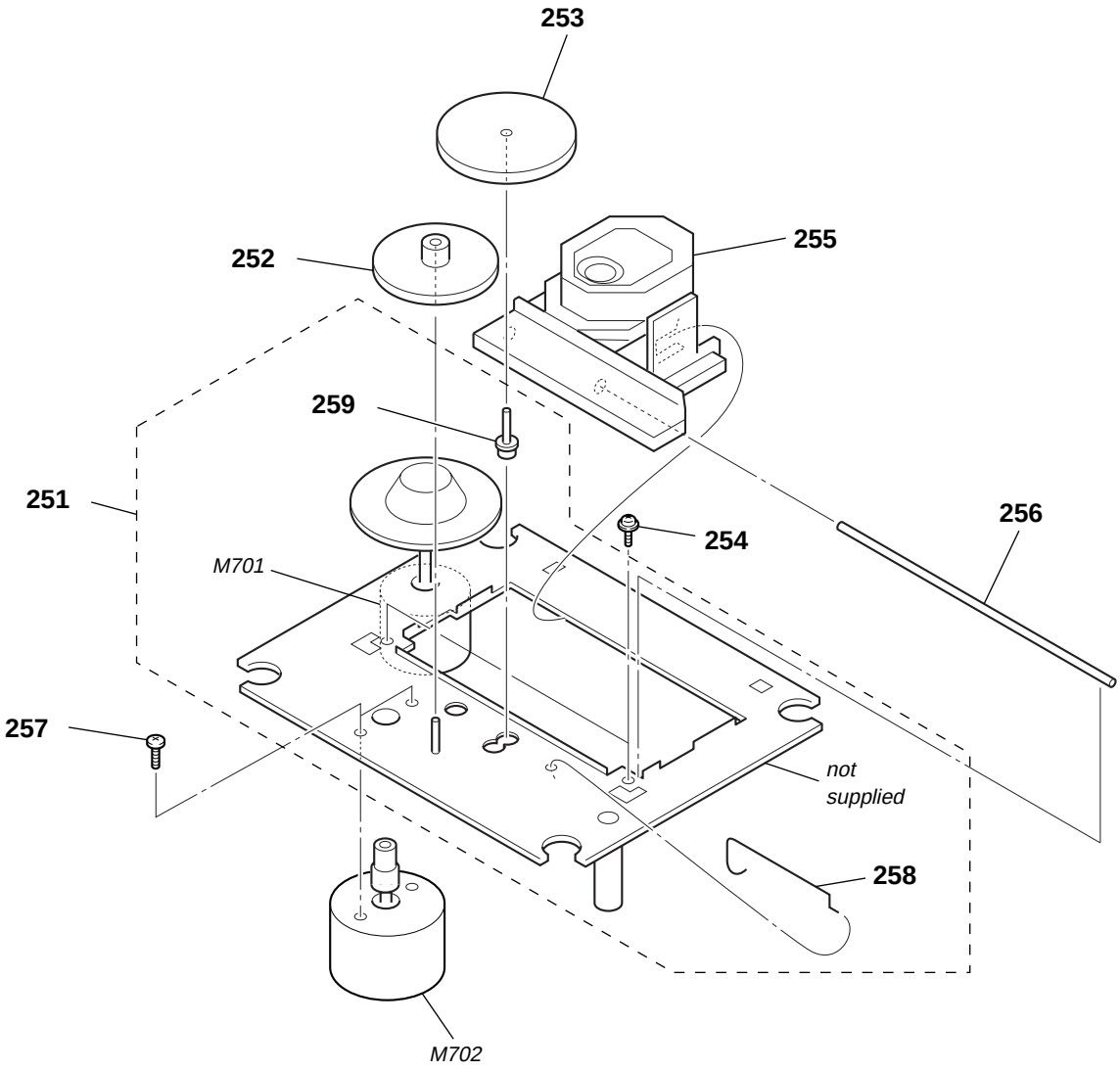
OPTICAL PICK-UP SECTION (KSM-213CDP)



Ref. No.	Part No.	Description	Remark
⚠501	8-848-483-12	OPTICAL PICK-UP (KSS-213C/C2RP1)	
502	2-174-500-01	SCREW (2X3)	
503	2-626-908-01	SHAFT, SLED	
504	2-627-003-01	GEAR (B) (RP)	
505	X-2162-709-2	CHASSIS ASSY (CDP), MOTOR (including M701 (SPINDLE))	
506	2-626-907-11	GEAR (A)	
M702	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED) (includi1ng GEAR)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

OPTICAL PICK-UP SECTION (KSM-213RDP)



Ref. No.	Part No.	Description	Remark
251	X-2162-707-2	CHASSIS ASSY (RDP) (RP), MOTOR (including M701 (SPINDLE))	
* 252	2-647-408-02	GEAR (B)	
* 253	2-169-065-01	GEAR (A)	
254	2-169-388-01	TAPPING (M2), +PWB	
⚠255	8-820-161-02	OPTICAL PICK-UP (KSS-213R/C2RP)	
256	2-626-908-01	SHAFT, SLED	
257	2-174-500-01	SCREW (M2X3)	
* 258	2-169-385-01	SPRING, SLED	
* 259	2-169-384-01	SHAFT (S), GEAR	
M702	X-2162-712-2	GEAR ASSY (R) (RP), MOTOR (SLED) (including GEAR)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2004.03	New
1.1	2004.06	Addition of Korean and Taiwan models
1.2	2004.07	Addition of Argentina model
1.3	2004.11	SUPPLEMENT-1 : Addition of Optical Pick-Up Section Change of Optical Pick-Up Block (KSM213RDP→KSM213CDP) Addition of REMOTE CONTROL UNIT (SPM-04041, SPM-04144)
1.4	2005.09	Change of part No. of Power Cord (SPM-05132)